

Catalog of Seeds

Compiled and Collected by

Harry E. Saier

CATALOG NO. 21 - 1961

THIRTY CENTS

LIBRARY
RECEIVED

★ JAN 3 1961 ★

U. S. Department of Agriculture

FIFTY YEARS

Harry E. Saier

Dimondale - Michigan - U. S. A.

JAPAN: AZUCHICHE, SHIGAKEN. AUSTRALIA: WILLIAMSTOWN, VICT.
NEW ZEALAND: 536 ALBERT STREET, PALMERSTON NORTH.

THE SAIER CATALOG OF FLOWER SEEDS

THE MOST COMPLETE LIST PUBLISHED

ABELIA.

(ah-BEAL-ee-tah)

Caprifoliaceae. Showy shrubs thriving in well drained soil, in protected sunny places.

—**Graebneriana.** **ABEL-8.** 40¢
Deciduous sh to 10 ft; pink fls, yellow inside; China.

ABERIA: see **Dovyalis.**

ABIES - FIR

(AY-bih-ez) **FIR.** Pinaceae. Large evergreen trees, similiar to the Spruces. Sow seed in the spring; stratify for 3-6 months at 40 F; shade seedlings immediately.

—**Abies.** **ABIE-30.** 50¢
Nikko Fir. One of the best for ornament; grows to 90 ft; (IV); Japan. **Oz.** 90¢; **lb.** \$7.00
—**amabilis.** **ABIE-2.** 50¢
Cascade Fir. Hardy in N.E. **Oz.** \$1.50; **lb.** \$9.00.

—**balsamea.** **ABIE-4.** 30¢
Balsam Fir; for large lots stratify in sand 3-4 months; sow in fall if possible; new crop seed after Nov; **lb.** \$6.00.

—**cephalonica.** **ABIE-9.** 30¢
Greek Fir. Greece; (IV). **Oz.** 50¢; **lb.** \$4.00.
—**cilicica.** **ABIE-11.** 35¢

Asia Minor; hardy in (IV). **Oz.** 90¢.
—**Concolor.** **ABIE-12.** 30¢

White Fir. Hardy tree; comes in several forms or varieties. **Oz.** 50¢; **lb.** \$4.00.

—**Lowiana.** **ABIE-12L.** 80¢
Lvs longer; Ore to Cal. **Oz.** 90¢; **lb.** \$6.00.

—**firma.** **ABIE-22.** 40¢
Momi Fir. Hardy Fir in (IV) zone; Japan. **Oz.** 75¢; **lb.** \$3.00.

—**grandis.** **ABIE-20.** 40¢
Grand or Giant Fir. Wash seed. **Oz.** 90¢; **lb.** \$6.00.

—**koreana.** **ABIE-32.** 50¢
Korean Fir. Not common in U. S. but one of the best species; it can be used well where space is limited; 50 ft; (V).

—**lasiocarpa.** **ABIE-34.** 40¢
Alpine Fir. Mont. seed. **Oz.** 85¢; **lb.** \$7.00.

—**magnifica.** **ABIE-35.** 40¢
Red Fir. Ore. seed; hardy in parts of the East. **Oz.** 90¢; **lb.** \$7.00.

—**magnifica v shastensis.** **ABIE-35S.** 35¢
Shasta Red Fir. **Oz.** 75¢; **lb.** \$5.00.

—**Mariesii.** **ABIE-36.** 40¢
Hardy Japanese Fir in (IV) zone. **Oz.** 75¢; **lb.** \$3.50.

—**Nordmanniana.** **ABIE-40.** 35¢
Hardy in North.f. **Oz.** 90¢; **lb.** \$6.00.

—**Pinsapo.** **ABIE-43.** 40¢
Spanish Fir. Hardy (IV) zone. **Oz.** 90¢.

—**procera.** **ABIE-46.** 50¢
(nobilis) Noble Fir. Wash-N. Calif; (V). **Oz.** \$1.50; **lb.** \$9.00.

—**sachalinensis.** **ABIE-52.** 50¢
Sazhalin Fir. N. Japan; very hardy Fir. **Oz.** 80¢; **lb.** \$5.50.

—**spectabilis.** **ABIE-55.** 30¢
Himalayan Fir. New crop seed late in the winter; stratify and plant in spring.

—**Veitchii.** **ABIE-58.** 50¢

Very hardy; cones bluish purple; suggest treatment as for **A spectabilis.** **Oz.** 75¢; **lb.** \$5.50.

ABRONIA.

(ah-ROH-nee-ah) **Nyctaginaceae.** Sand Verbena. Dwarf or trailing plants with pretty white, yellow or pink fragrant flowers. Treat as annuals, sowing seed early indoor for summer bloom; they do better when planted direct in the open ground and in the S seed can be sown in the fall. Remove husks or soaking seeds 24 hours helps germination which usually takes 13 days; 60-65 degrees Fah; start indoors in Sept. or February; cuts.

—**umbellata gr. fl. Rose.** **ABRO-8.** 25¢
Pretty little trailer; 10"; July-Sept; HHA; rosy pink Verbenia-like fls; sp 18". **Oz.** \$2.00.

—**villosa.** **ABRO-11.** 25¢
A smaller species than **A. umbellata**; fls rose colored and sweet scented; good in hot dry position **Oz.** 90¢.

ABRUS.

Leguminosae. Vines of tropical regions, grown in N in GH and for ornamental seeds, soak seeds before planting.

—**precatorius.** **ABRU-3.** 50¢
Wild Liquorice. Rosary-pea. Twiner to 10 ft; red to purple fls; seeds used in making rosaries. **Oz.** 90¢.

ABUTILON.

Flowering Maple

(ab-YEW-til-on) Flowering Maple. Tender plants, most of which are grown indoors. They are easily grown from seed which can be grown out doors during the summer and lifted in the fall; blooms in 90 days; start in March; C-22.

—**hybridum, Mixed.** **ABUT-10X.** 50¢
1/4 **Oz.** \$5.00.

—**maximum, Mixed.** **ABUT-12X.** 50¢
One flowered strain. 1/4 **Oz.** \$6.00.

—**vitifolium.** **ABUT-20.** 50¢
Light blue fls; fine for the greenhouse.

ACACIA

(ah-KAY-shah) **Leguminosae.** They are widely distributed in tropical and warm regions and have many valuable uses; not hardy in the N; the hard seed coat of some species will stand being placed in the dying embers of a fire, others germinate well in fresh wood ashes or given a hot water or sulfuric acid treatment; C-22.

—**accola.** **ACAC-2.** 40¢
One of the loveliest of all; loaded down in late winter and early sp. with masses of golden fls; tr. to 20 ft.

—**acinacea.** **ACAC-3.** 35¢
Flower heads 1/8" ac; shrub; S. Amer.

—**acuminata.** **ACAC-4.** 40¢
Handsome tr; strong raspberry odor; wood indestructible; moist sandy soil; fls in golden yellow spikes.

—**adunca.** **ACAC-6.** 40¢

—**armata.** **ACAC-7.** 30¢

Kangaroo Thorn. Prickly sh. with very large deep golden fl-balls; 10 ft; used extensively as a large pot plant. **Oz.** \$2.00.

—**aspera.** **ACAC-8.** 30¢

Small sh to 3 ft with coarse fol; golden

- yellow fls.
—**Baileyana**. ACAC-10. 30¢
Cootamunda Wattle. Most popular of the Silver Wattles; sh or small tr; N. S. W; silvery, feathery fol; golden fls in great profusion; cut away 1/3 growth after flowering. Oz. 90¢.
- brachybotrya**. ACAC-17. 25¢
A tall S. Australian shrub.
- buxifolia**. ACAC-19. 35¢
Sh; small globular fl-h'ds; 6 ft. Oz. \$3.00.
- calamifolia**. ACAC-20. 30¢
Sweet Wallowa A. Thin silver lvs; small gold fls; pods to 9" long; very decorative; has a thin silvery cane-like phyllodes; (IX). 8-10 ft; spreading bush; Australia.
- cardiophylla**. ACAC-21. 40¢
Wyalong Wattle. Beautiful foliage; golden fls. Oz. \$2.00.
- Catechu**. ACAC-22. 40¢
Tr; yields black catechu.
- cultiriformis**. ACAC-26. 40¢
Knife Wattle. Golden fls; 8 ft; HHSh. unique blue-grey foliage; 15 ft. Oz. 90¢.
- cyanaphylla**. ACAC-27. 30¢
Blue-leaf Wattle. To 18 ft; magnificent tree for park or yard; W. Aust. Oz. 50¢.
- cyclopiis**. ACAC-28. 40¢
Spreading 8 ft HHSh; cream fls; summer; grown in the GH. Oz. \$1.50.
- Deanei**. ACAC-29. 35¢
15 ft. high; Australia. Oz. \$1.00.
Himalayan Silver Fir. (A. Webbiana). Hardy in V or VI zone.
- decurrens**. ACAC-32. 30¢
Black Wattle. 30 ft; HHSh; spring; golden fls; fine dark green ferny fol; good tub plant; fls in large panicles. Oz. 90¢.
- dealbata**. ACAC-32D. 40¢
Silver Wattle. 50 ft. tr; most conspicuous Australian native; river banks.
- mollis**. ACAC-32M. 25¢
Green Wattle. Tree to 20 ft; lvs yellowish when young; good tub plant; Aust. Ounce \$1.00.
- normalis**. ACAC-32N. 40¢
Green Wattle. Tree; glabrous lvs; Aust. deep yellow fl-heads. Oz. \$4.00.
- decora**. ACAC-31. 40¢
- diffusa**. ACAC-35. 30¢
Shrub to 6 ft; S. Australia.
- discolor**. ACAC-36. 40¢
Sunshine Wattle. Yellow fls; 8 ft; HHSh. Ounce \$5.00.
- drummondii**. ACAC-40. 40¢
Finest dwarf; 4 ft; golden fls; good GH. one of the most beautiful little shrubs imaginable, with soft pinnata lvs.
- elata**. ACAC-42. 35¢
(A. terminalis).
- falcaia**. ACAC-46. 40¢
- Farnesiana**. ACAC-48. 30¢
Popinac. Thorny shrub; 10 ft; flowers are very fragrant; Texas; HHSh. Oz. \$1.00.
- flexifolia**. ACAC-49. 40¢
- fragilis**. ACAC-52. 75¢
Very rare Wattle.
- glandioformis**. ACAC-50. 40¢
- glydulicarpa**. ACAC-50. 30¢
(Pyracantha) Hairy Pod Acacia. 1-5 ft.
- glaucescens**. ACAC-51. 40¢
Tr to 60 ft; fls in 2" spikes; Qn's, N.S.W; 1/2 oz. \$1.25.
- gnidium**. ACAC-55. 50¢
- implexa**. ACAC-64. 40¢
25 ft. Australian tree.
- juniperina**. ACAC-68. 35¢
Silk-tree; (Albizia jub.) Seed have a seed coat dormancy and in small plantings it is best to file seed; germination spring. Oz. 50¢; lb. \$2.00.
- Kettlewellae**. ACAC-73. 40¢
6-10 ft; Australia.
- laeuigati**. ACAC-70. 35¢
Attractive, rather rare, small Australian tree; damp places; lovely deep yellow fl-balls all summer.
- laliqua**. ACAC-71. 35¢
- leprosa**. ACAC-72. 40¢
Cinnamon W. Very pretty with cinnamon scented fol; large fluffy sulphur-yellow fls; semi-weeping; 12 ft.
- linifolia**. ACAC-77. 40¢
10 ft sh; fl-heads in short racemes; N.S.W.
- Cunce** \$1.00.
- lineata**. ACAC-76. 40¢
4 ft; Australia.
- leucoptera**. ACAC-82. 50¢
- linifolia v. prominens**. ACAC-77P. 35¢
Golden Shower. Large pendant trusses of golden fls; 10 ft. sh; wind resistant; N.S.W.
- longifolia**. ACAC-80. 30¢
A handsome species; Willow-like lvs; very beautiful spikes of rich yellow balls; fast grower; does well on sandy coastal soils; 12 ft. Oz. 90¢.
- Sophorae**. ACAC-80S. 35¢
Shrub; 12 ft; Australia.
- melanoxylon**. ACAC-90. 40¢
Black-wood. Cream fls; summer; 30 ft. one of the most valuable fancy timber trees; good for shade, too. Oz. \$1.75.
- merralli**. ACAC-91. 40¢
Silver fol; 5 ft; Australia.
- montana**. ACAC-92. 30¢
Mallee Wattle. 4-6 ft; Aust.
- myrifolia**. ACAC-93. 40¢
Tall sh; fls short racemes; Ausaralia.
- nitilica**. ACAC-95. 40¢
(arabica, scorpioides) Gum Arabic Tree.
- obtusata**. ACAC-97. 50¢
- ornata**. ACAC-98. 40¢
- mollissima**. ACAC-93. 50¢
- notabilis**. ACAC-96. 40¢
12 ft; Australia.
- pendula**. ACAC-101. 40¢
Weeping Myall. Small tr; fl-heads in clusters; Qn's, N.S.W.
- peninnervis**. ACAC-102. 40¢
25 ft; Australia
- podalyriaefolia**. ACAC-107. 30¢
This is one of the best of the Acacias; tall sh; lvs deep blue; masses of drooping golden sprays; 10 ft.
- polybotrya**. ACAC-108. 50¢
- prominens**: see A. linifolia v. prominens. Ounce \$2.00.
- pyncnantha**. ACAC-114. 30¢
Golden Wattle. Finest of all Acacias; shapely; large golden yellow fls; sweet scented; 15 ft; will thrive in only a few inches of soil. Oz. \$1.25.
- regenis**. ACAC-117. 30¢
- retinoides floribunda**. ACAC-118F. 40¢
Oz. \$1.00.
- rigens**. ACAC-115. 40¢
Needle Wattle.
- saligna**. ACAC-116. 35¢
Shrub or small tr; 15 ft; fl-heads 1/2" ac in racemes; W. A. Oz. \$1.00.
- spectabilis**. ACAC-118. 50¢
- suaveolens**. ACAC-120. 40¢
Sweet Winter Wattle. Oz. \$1.00.
- subulata**. ACAC-122. 40¢
10 ft. sh; an uncommon species; fls small in slender sprays; N.S.W.
- undulifolia**. ACAC-138. 40¢
8 ft; Australia.
- humilis**. ACAC-138H. 50¢
- vittoria**. ACAC-150. 30¢
A prickly Acacia; to 10 ft; Aust.
- Mixed**. ACAC-X. 25¢
A mixture of all species.

Writing letters on your order delays its filling as well as confuses the packer!

ACAENA.

Rosaceae. Ground cover type plants suitable in South and RG.

—**novae-zelandiae.****ACAE-15. 40¢**

N. Z.; creeping; fls in globular heads, 1½" ac; purple-red spines; 3" high.

ACANTHOPANAX. (ak-anth-on-PAN-nax)

Araliaceae. E. Asian shs and trs; fls in umbels followed by blackish berries; ornamental most are hardy in (IV) and (III).

—**spinosum.****ACAX-12. 35¢**

10 ft sh; arching branches; very good, hardy sh; Japan. Oz. \$1.00; lb. \$15.00.

—**ricinifolius:** see *Kalopanax pictus*.

ACANTHUS.

(ah-KAN-thus) *Acanthaceae* Bear's Breech. Perennials, thistle-like small shs; about 3 ft tall; fls white, rose or lilac on 18" spikes. They need heavy winter protection in the N; best in rich well drained soils. Seed sown in April will flower in August; TP; C-23.

—**mollis v. latifolia.****ACK-1L. 35¢**

Broad glossy lvs; curious pale purple fls; HB; C-23; DC. Oz. 60¢; lb. \$5.00.

ACER-MAPLE

(AY-ser) *Aceraceae*. Street tree as well as for lumber; seed should be planted after collecting but properly stored seed can be planted the following spring; moist mineral soil for seed bed; ½ inch deep; mulch; it takes as much as 2 years in some species to germinate when seed has been stored and is dry in which case soaking seed in water for 2 days at 110 degrees F gives an even germination; best to get seed as soon as possible after gathering; wings of seed can be broken off. Most species have an embryo dormancy which can be broken by storing in moist sand at 41 F. for 3 months.

WINGED SEEDS

Seeds such as *Acer*, *Banksia*, *Teloepa*, *Hakea*, etc. should have hte wing broken off before planting but when planted with wing on, plant with wing uppermost.

—**argutum.** **ACER-1. 50¢**
Tree to 25 ft; Japan. Oz. 90¢; lb. \$9.00.

—**Buererianum.** **ACER-4. 75¢**
(*A. trifidum*) Trident M. Small Japanese tree. Oz. 60¢; lb. \$3.50.

—**campestre.** **ACER-6. 25¢**
Hedge Maple. Tr to 50 ft. Oz. 75¢; lb. \$1.50

—**carpinifolium.** **ACER-9. 50¢**
Hornbeam Maple. Tr to 30 ft; Japan. Oz. 90¢; lb. \$5.00.

—**circinatum.** **ACER-14. 75¢**
Vine Maple. Small round-headed tr; 40 ft; B. C-Calif.

—**citrifolium.** **ACER-18. 40¢**
(*Negundo*) 30 ft. tr; Japan; fls in racemes, 4" long. Oz. 80¢; lb. \$5.00.

—**crataegifolium.** **ACER-16. 50¢**
Hawthorn Maple. Tr to 30 ft; lvs bluish green; Japan. Oz. 90¢; lb. \$5.00.

—**diabolicum.** **ACER-19. 40¢**
Tree to 30 ft; Japan. Oz. 75¢; lb. \$5.00.

—**Ginnala.** **ACER-26. 50¢**

AMUR MAPLE. Seed needs 1-2 months of warm weather, in seed bed, to permit bacterial growth on seed coat but in N it's best to plan on 2 years in the seed bed; seed ripe Sept-Nov; Order early. Oz. 60¢; \$5.00.

—**glabrum.** **ACER-27. 50¢**
Rocky Mt. M. Sh or tr to 25 ft. C.S. Oz.

75¢; lb. \$4.00.

—**Douglasii.**

Larger tree than type; Alaska.

—**japonicum.****ACER-27D. 75¢**

Full-moon M. Small tr or sh; fls purple in nodding corymbs; Japan. Oz. 90¢; lb. \$6.00.

—**macrophyllum.****ACER-43. 35¢**

Oregon Maple. Tr to 100 ft; hardy to Alaska.

—**micranthum.****ACER-45. 40¢**

Shrubby tr to 20 ft; Japan. Oz. 90¢; lb. \$5.00.

—**Miyabei.****ACER-46. 75¢**

40 ft; bark corky; Japan.

—**Mono.****ACER-47. 30¢**

(*A. pictum*) Painted Maple. 60 ft; Japan. Stratify seed 3-4 month at 40 F; sow in Spring; gives good results. Oz. 80¢; lb. \$4.00.

—**dissectum.****ACER-47D. 50¢**

Leaves cut almost to base. Oz. 75¢; lb. \$12.00.

—**Negundo.****ACER-51. 25¢**

Box Elder. Tr to 70 ft. Oz. 65¢; lb. \$2.00.

—**variegatum.****ACER-51V. 35¢**

Leaves with white margins. Oz. 90¢.

—**nikoense.****ACER-53. 50¢**

Tr. to 40 ft; China. Oz. 90; lb. \$6.00.

—**Osokadzuki.****ACER-55. 50¢**

Lvs turn scarlet in Autumn. Oz. \$2.00.

—**palmatum.****ACER-59. 50¢**

Japanese M. Sh or tr to 20 ft; pretty.

Oz. 75; lb. \$5.00.

—**atropurpureum.****ACER-59A. 50¢**

Japanese Maple. Sh or tr to 20 ft; very popular and ornamental with purple leaves This is more profitable to grow from seed; the few seedling showing green foliage can be seen the first year and discarded. Oz. \$1.00; lb. \$5.00.

—**dissertum.****ACER-59D. 50¢**

Leaves divided to base into pinnately cut lobes; sow in spring; soak seed 24 hrs.

—**dissectum.****ACER-59AD. 50¢**

Deeply cut lvs in the red variety. Oz. \$1.00; lb. \$12.00.

—**Tamarkeyama.****ACER-59T. 50¢**—**platanoides.****ACER-62. 40¢**

NORWAY MAPLE. An excellent street tree. Oz. 50¢; lb. \$1.50.

—**Pseudo-Platanus.****ACER-64. 40¢**

Sycamore M. Tr to 100 ft. Oz. 60¢; lb. \$1.00.

—**atropurpureum.****ACER-64A. 50¢**

Red leaved. Oz. 75¢; lb. \$2.00.

—**rufinerve.****ACER-68. 40¢**

40 ft. tr; fls in erect racemes; Japan. Oz. 75¢; lb. \$5.00.

—**saccharinum.****ACER-73. 40¢**

Soft Maple. Seed ripe in April-June 15th; seed should be planted as soon as possible; shade the seed bed.

—**saccharum.****ACER-74. 40¢**

Sugar Maple. Seed ripe about Oct; if stratified, it must not be too long as germination may occur; sow in spring.

—**Sieboldianum.****ACER-76. 50¢**

ACER-78.\$1.00

Similar to *A. palmatum*; lvs 11-lobed. Shrub or sm. tr; Japan. Oz. 75¢; lb. \$7.00.

—**japonicum.****ACER-76J. 50¢**—**spicatum.****ACER-78. 50¢**

MOUNTAIN M. Seed ripe late Sept. to Nov. If too late for fall planting treat as for *A. Ginnala*. Oz. 85; lb. \$4.50.

—**ukurunduense.****ACER-78K. 50¢**

Oz. 75¢; lb. \$5.00.

—**tataricum.****ACER-79. 35¢**

Sh or tr to 20 ft; bright red fr in summer.

—**Tschonoskii.****ACER-87. 50¢**

Japanese tree to 20 ft; lvs 3" ac. Oz. \$1.25; lb. \$5.00.

ACHILLEA

(ak-ha-LEE-ah) Compositae. Yarrow, Milfoil. Hardy herbaceous perennials, easily grown in any fair soil in full sun; flowers in clusters of small heads in white yellow or pink, making good cut-flowers. Seed planted indoors in March will flower same season; good in border; all those with silver foliage make excellent dried fls as does also *A. filipendula* and *millefolium*.

—**Ageratum.** ACH-5. 30¢
Silver Yarrow. 18"; yellow fls in compact corymbs.

—**filipendulina.** ACH-10. 25¢
This has showy round heads; yellow; robust grower; 5 ft; HP.

—**Cloth of Gold.** ACH-10C. 25¢
A pretty golden fl'd var. ½ Oz. \$1.50.

—**alba.** ACH-10W. 25¢
A white flowered variety.

—**Parker's Variety.** ACH-10P. 25¢
A deep orange variety showy in border. dry soils. ½ Oz. 90¢.

—**Fronmuelleri.** ACH-13. 25¢
Hybrid between *A. abrotanoides* and *Moschnata*.

—**acedonica.** ACH-19. 50¢
A species from Switzerland.

—**Millefolium.** ACH-20. 25¢
Rounded heads of magenta-red fls; 2 ft; HP. ½ Oz. 90¢.

—**Cerise Queen.** ACH-20C. 35¢
Purple red flowers.

—**rosea.** ACH-20P. 25¢
A pretty pink form. ¼ Oz. 85¢.

—**Piarmica v. The Pearl.** ACH-24P. 25¢
Double pure white much used as a cut-flower by the florists; HP. ¼ Oz. \$2.00.

—**Tavgeiea.** ACH-33. 30¢
A new lemon colored variety; 2-3 ft.

—**White.** ACH-33W. 25¢
ACH-40A. 35¢

—**tomentosa aurea.** ACH-40A. 35¢
Woolly Yarrow. 1 ft; yellow fls & lvs; HP.

—**achillea Blend.** ACH-X. 20¢
All kinds mixed.

ACIDANTHERA.

Iridaceae. So. Af. tender cormous plants much like *Gладиолус*.

—**bicolor.** ACID-5. 40¢
Creamy white fls, with dark center; 18".

ACHIMENES.

Gesneriaceae. Showy Gloxinia-like fls, native of tropical Amer; plants should be dried off after flowering; usually grown in pots.

—**Humboldt.** ACHI-X. 75¢
Large brilliantly colored fls; forms tubers for renewing; seed scarce.

ACHRAS sapota: see *Sapota zapota*.

ACIPHYLLA.

(ak-ih-PHYL-ah) Umbelliferae. RG or the border; perennials; erect growing; easy from seed started in Feb. indoors or for growing on in pots

—**C. sp.** ACIP-1. 25¢
New Zealand border plant; white fls; 5 feet; TP.

ACMENA.

—**Smithi.** ACME-30. 40¢
Fast growing tr or sh; 10-24 ft; edible purple berries; XI; white fls; Australia.

GARDEN BOOKS: We try to offer only practical books; there are too many dream books already published on gardening.

ACONITUM

(AK-oh-nyt-um) Ranunculaceae. Aconite. Monkshood. Herbaceous perennials; seed germinating slowly; sow out doors in May or June in shady place or they can be started indoors earlier but plants do not transplant easily; thin to 18" apart; bone meal is good fertilizer for them; try sowing the seed in the fall; C-24; D C; seed definitely requires a cold spell before germinating.

—**Anthora.** ACD-1. 30¢
Pereenies Monkshood. 2 ft; pale yellow.

—**ferox.** ACD-9. 25¢
Has violet flowers, interior lighter color. ½ Oz. \$2.00.

—**Fischeri.** ACD-10. 50¢
Blue or white fls; 6 ft. ¼ Oz. 90¢.

—**lycoccionum.** ACD-14. 25¢
Wolf'sbane. Hardy; yellow fls; 4 ft; moist soils; HP; DC. ½ Oz. \$2.00.

—**Carmichaelii v. Wilsonii.** ACD-10W. 50¢
(Fischeri; sinensis) 6 ft; a group with several garden selections.

—**Napellus.** ACD-16. 35¢
Monkshood, Wolf's Bane. HP; 4 ft; blue fl; best plants are those with straight beak to the blue hood; daughter roots lifted in autumn, washed and dried; plant poisonous in all its parts; use gloves. ¼ Oz. \$1.00.

—**palmatum.** ACD-16P. 30¢
Blue flowers; 4 ft; HP. Oz. \$2.00.

—**praecox.** ACD-16R. 35¢
Blue fls; 2" ac; Himilayan Mts; HP; DF.

—**reclinatum.** ACD-18. 40¢
Trailing Monkshood. 2-4 ft; greenish yellow fls; moist shady places. PLANTS:

ONLY: 60¢ ea; 3-\$1.50.

—**uncinatum.**
Clambering Monkshood. 3-5 ft; vine-like stems; blue hood-shaped fls; showy.

PLANTS ONLY: 60¢ each; 3-\$1.50.

ACROCLINIUM: see *Helipterum roseum*.

ACROGEPHALLUS.

—**sericus.** ACRO-1. 30¢
Shrubby compact growth; soft pale blue fls; 1-2 ft; S. Rhodesia.

ACTAEA. BANEERRY, COHOSH

(ak-TEE-ah) Ranunculaceae. Baneberry Cohosh. The showy terminal flowers develop into pretty white berries; they are useful in the rock garden, border or wild garden, doing best in shady places. Sow seed in late fall or spring; slow germinating; herbaceous HP.

—**arguta.** ACTA-2. 25¢
Very hardy; red berries; 2 ft; HP; (III).

—**pachypods alba.** ACTA-6A. 25¢
White Baneberry. A decid. plant, 2-3 ft; white fls followed by white showy berries;

RG or shady spot; (III); HP; Ph 6-7. PLANTS: 3 for \$1.60.

—**rubrocarpa.** ACTA-6R. 40¢
Red berries.

—**ubra.** ACTA-8. 25¢
Red Baneberry. Herbaceous; 2-3 ft; white fls followed by showy red frs; shade or part; (III); Hp 5-6; HP. PLANTS: 3-\$1.60.

ACTINEA.

(ak-ti-NE-ah) Compositae. N.Am. plants related to *Helenium*; fls yellow; ray and disk fls; HA and HP; cuts; sow seed during Sept or March direct to garden; thin to 4-6" apart; full sun. (Pigmy Sunflowers) HBB; yellow fls; ½" ac; 15"; Texas.

—**fastigata.** ACTN-3. 40¢
Lovely small daisies in light gold, 1" ac; 4" tall; HP; (II).

—**linearifolia.** ACTN-8. 40¢

4-Nerved Daisy. Fl-heads $\frac{3}{4}$ " ac; HHA or HHB; 15 inches; Texas.

—**simplex.** **ACTN-9. 40¢**
Brilliant golden daisies; silvery green rosettes; 10 in.; HP; (II).

ACTINIDIA. (ak-tin-NID-ee-uh)
Dilleniaceae. Attractive shrubby vines with edible berries; sun or part shade; sow seeds in the spring.

—**arguta.** **ACTD-1. 50¢**
Tara Vine. White fls, $\frac{3}{4}$ " ac; sweet fr; Manchuria. **Oz. \$1.80.**

—**polygama.** **ACTD-9. 35¢**
Silver Vine. Lvs 6" long, variegated with white and yellow; white fls $\frac{3}{4}$ " ac; Japan. **Oz. \$1.50.**

ACTINOMERIS. (ak-tin-OM-er-is)
Compositae. Tall Sunflower-like native perennials for the hardy border or wild garden; resembles Helianthus and Verbesina; grow like Sunflowers.

—**alternifolia.** **ACTI-1. 30¢**
Yellow fls 1-2" ac. in many heads in corymbs; ray-flowers; 8 ft; HP.

ACTINOPHLEAUS.
Palmaceae. Cluster Palms. Small feather palms growing in clustered clumps.

—**macarthurii.** **ACTP-5. \$1.00.**
A handsome Palm to 10 ft; excellent for tubs or outside in far S; partial shade; seed mailed fresh when ripe.

ACTINOSTROBUS.
Cupressaceae. Shbs allied to Callitris; has needle-like lvs; W. A.

—**glauca.** **ACTB-12. 50¢**
10 ft; Australia.

—**pyramidalis.** **ACTB-3. 40¢**
Compact; 10 ft sh for general planting; good also near seaside; (XI); W. A.

ACTINOTUS.
Umbelliferae. HHA and HHP from Australia; sow seed indoors Feb-Mar at 65-70 Fah germ. 19 days.

—**Helianthi.** **ACTU-2. 25¢**
Flannel Flower. Silver gray fol; green tipped white sepals, surrounding tiny florets; slow to germ; space 9"; TA; grow as TA in North.

ADENANTHERA. **BEAD TREE**
(ad-en-ANTH-er-ah) **BEAD TREE.** Leguminosae. Trees allied to Mimosa and grown for ornament in S or under glass in the N; soak seed in hot water.

—**pavonina.** **ADDN-1. 50¢**
Red Sandlewood Tree, Peacock Flower Fence. White and yellow fls in racemes, 6" long; seeds are ornamental and used in beads; (X). 100 seeds to Oz.

ADENOPHORA. **LADY BELLS**
(ad-e-NOF-oo-rah) Campanulaceae. Lady Bells. Erect perennials with fleshy roots; flowers in shades of violet; they are useful in the border being grown like Campanulas; disturb as little as possible.

—**confusa.** **ADEN-2. 25¢**
Erect; fls deep blue; 1" long; 3 ft; HP.

—**Ko-eana.** **ADEN-6. 30¢**

—**lilifolia.** **ADEN-9. 30¢**
Bluish or whitish blue fls; sweet scented; 4 ft; HP.

—**palustris.** **ADEN-16. 40¢**
Fls in spike-like racemes; bluish, bell-shaped, $\frac{3}{4}$ " ac; (IV).

—**Potaninii.** **ADEN-20. 25¢**
Bell-sh'ed fls in panicles; violet; 3 ft; HP.

ADIANTUM. (a-di-AN-tum)
Maidenhair Fern. Polypodiaceae. Both hardy and tender species; some are very beautiful; hardy ones best in limestone soil, moist woods.

—**caudatum.** **ADIA-9. 50¢**

Trailing Maidenhair Fern.

—**cuneatum.** **ADIA-13. 50¢**

Delta Maidenhair. Brazil; these come in many varieties; GH.

—**fragrantissimum.** **ADIA-13F. 50¢**

—**lunulatum.** **ADIA-29. 50¢**

Walking Fern. Fronds 1 ft; tropical.

—**micropinulum.** **ADIA-30. 50¢**

—**pedatum.** **ADIA-34. 50¢**

Maidenhair Fern. One of the most beautiful native ferns; moist shady places; 18".

Plants: 50¢ each; 3 for \$1.35. Prepaid.

—**pubescens.** **ADIA-38. 50¢**

—**scutum roseum.** **ADIA-45R. 50¢**

ADLUMIA. (ad-LOO-mee-ah)

Fumariaceae. One HB vine native of N Amer; very attractive; sow seeds direct during April; germ. 2-3 weeks; fast grower; best in cool moist soil, protected from sun and wind; plant seed in Spring where they are to grow.

—**fungosa.** **ADLM-1. 20¢**

(A. cirrhosa) Mountain Fringe; Allegheny Vine. Fern-like leaves; white or purplish fls; fr. oblong caps; HB. $\frac{1}{2}$ Oz. \$1.00.

ADONIS.

(ah-DOH-nis) Ranunculaceae. Pheasant's Eye. Hardy herbaceous annuals and perennials; some make good RG plants and grow well in both sun or shade; fls solitary terminal; crimson or scarlet with a dark colored base. Sow seed of all kinds in the fall, best, or in early spring; easily grown; requires deep rich soil; sp. 6-8" ap; germ. 14 days; flowers in 14 weeks.

—**aestivallis.** **ADON-1. 25¢**

Pheasant's Eye or Summer Adonis. Very attractive plant; flashing fol. and brilliant crimson fls, $1\frac{1}{2}$ " ac; 18"; June-July; HA. **Oz. 75¢; lb. \$2.80.**

—**autumnalis.** **ADON-2. 30¢**

(annua). The true Flos or Autumn Adonis. Fls $3\frac{1}{4}$ " ac; deep red with dark centers; 2 ft; June-Oct. **Oz. 80¢.**

—**vernalis.** **ADON-9. 30¢**

Spring A. Yellowish fls; 18"; HP; C-24; RG; LC. $\frac{1}{4}$ Oz. \$1.50.

AESCHYNANTHUS: see *Trichosporum*.

AESCULUS. **HORSE CHESTNUT**

(ESS-kew-lus) Hippocastanaceae. Trees and shrubs; and valued for their dense shade and ornamental flowers; there are some 25 species of which only a few are grown; as a rule the seed should be planted as soon after gathering as possible; seed properly stored can be planted in the spring; germination takes place in spring.

—**Hippocastanum.** **AESC-15. 25¢**

The well known Chestnut Tree; seed seed ready in Oct; order early; best for stocks for grafting the vigorous varieties. **Lb. \$1.30; 10 lbs. for \$6.00.**

—**turbinata.** **AESC-35. 50¢**

Japanese H. Tree to 30 ft; yellowish white fls with red spots; in panicles, 10" long; Japan; 100 seeds to lb. **Lb. \$3.50.**

I can secure any horticultural book you may want and will be pleased to serve you.

AETHIONEMA. **STONE CRESS**
(eeth-ee-oh-NEE-nuh) Cruciferae. Annuals, biennials and perennials allied to Iberis and hardy up to (IV) zone; they are dwarf plants with flowers in terminal racemes and grown in the rockery or border; May-June; light limey soil; full sun.

NOTE: Seed has been scarce and I have been out much of the time — on all species.
—**pulchellum.** **AETH-16.** 50¢

—pink fls in heads or racemes; HP; Asia Minor.

—**sexatile.** **AETH-19.** 35¢

HP but usually grown as HA; 1 ft erect; excellent cut-fl; fls rose-purple in dense clusters; July-Aug; sow indoors March at 60-65 Fah; can be sown direct in March or April.

AGAPANTHUS Lily-of-the-Nile
(ag-ah-PANTH-us) Liliacea. Lily-of-the-Nile. Beautiful So. African bulbous plant, easily grown. Not hardy in the North; the bulbs must be stored indoors during winter. They make ideal tub plants lasting for yrs.
—**africanus, Mixed.** **AGAP-1X.** 30¢

Mixed varieties and colors; (X).

—**campanulata Hybrids** **AGAP-2H.** 40¢
This may be crossed with *A. africanus* and thus will produce hybrids; Calif.

—**inapertus.** **AGAP-5.** 50¢
Drooping flowers.

—**longianthus.** **AGAP-6.** 50¢
A new species; fls on 4 ft stems; free flowering; compact

—**montana.** **AGAP-7.** 50¢
Lovely semi-dwarf; pale blue fls.

—**orientalis.** **AGAP-8.** 50¢

Large heads of blue fls; 4 ft; S. Cal; (X).

—**alba.** **AGAP-8W.** 40¢

A white flowered variety of the above.

—**Blue Ribbon.** **AGAP-8B.** 50¢

Giant blue form.

AGASTACHE.
Labiatae. Perennial plants; border.

—**rugosa.** **AGAS-12.** 50¢
Korean Mint. HP; 4 ft; full sun; sp 30".

AGATI. (a-GA-te)
Leguminosae. Tropical trees; Asia.

—**grandiflora.** **AGAE-3.** 50¢
(seshania gr. fl.) Trop. tr to 40 ft; red or white fls; ornamental; far South.

AGATHIS.
—**robusta.** **AGAT-18.** 40¢

AGAVE. (ah-GAH-ve)
Tender succulents not standing frost. Does better if out doors during summer. Usually grown in pots or tubs.

—**attenuata.** **AGAV-91.** 40¢
(Wielzenii) Trunkless; lvs 18" long; fls stem to 12 ft; Mex. Oz. \$1.50.

—**Mixed.** **AGAV-X.** 50¢
100 seeds, \$1.50.

AGATHEA: see *Felicia azurea* or *ameloides*.

AGERATUM

(ag-er-A-tum) Compositae. Herbaceous annuals having tassel-like clustered heads; blue, pink or white fls; they are easily grown, are tender in the N and must not be set outdoors till all frost danger is passed. They are useful as edging, in the front border, in porch baskets; where they are to be used for edging, a good strain should be purchased that plants be uniform; C-17. Best sown indoors Mar-Apr; scattered thin-

ly on surface of compost; cover with glass; 60-65 Fah; germ. 10 days.

HOUSTONINUM: This is incorrectly listed as *A. mexicanum*. The commonly grown *Ageratums* all come under this species.

BLUE MINK.

AGER-3BM. 25¢

The new tetraploid *Ageratum* bearing giant trusses of fluffy powder-blue fls on strong husky plants, 5-6 in. tall, upright and compact. This an ideal subject for edging or border use in the home garden; produces husky plants for fast sale in pots or flats. 1/4 Oz. \$2.25.

—**Blue Ball.** **AGER-3B.** 20¢
A deep blue ball-shaped plant; compact; 9 inches. 1/4 Oz. \$1.00.

—**Blue Bedder.** **AGER-3C.** 20¢
Lavender-blue; compact; 4 inches; pretty. 1/4 Oz. \$1.00.

—**Blue Cap.** **AGER-3D.** 20¢
Rich blue; domed-shape plant; RG; extra nice variety; 6". 1/4 Oz. \$1.00.

—**Blue Star.** **AGER-3E.** 20¢
Deep blue; 6"; nice edger. 1/2 Oz. 95¢.

—**Capri.** **AGER-3CP.** 25¢
A Danish variety of the highest recommendation; it is very dwarf, about 4-6 in; nice blue fls. 1/4 Oz. \$1.60.

—**Dwarf Imperial, White.** **AGER-3RW.** 20¢
Popular bedding sort; strong growth over 1 ft. high. 1/4 Oz. 60¢.

—**Blue.** **AGER-3RS.** 20¢
Strong grower; blue fls; 10". 1/4 Oz. 60¢.

—**Fairy Pink.** **AGER-3Y.** 20¢
Softest salmon-pink; edging or pots; 6". 1/4 Oz. \$1.00.

—**King of the Blues.** **AGER-3F.** 25¢
Low compact plants; deep blue.

—**Little Dorrit.** **AGER-3G.** 25¢
Pretty deep blue; fine for edging and pots; they bloom all summer; 8". 1/4 oz. 60¢.

—**Market Growers Blue.** **AGER-3MG.** 25¢
Bright medium blue, an excellent cut-flower strain; stout stems of about 20 inches; good to cut. Oz. 60¢; lb \$1.00.

—**White.** **AGER-3GW.** 25¢
A pure white variety. Oz. 80¢.

—**Midget Blue.** **AGER-3H.** 25¢
2-3 inch plant; compact; fine for edging where a dwarf plant in needed. 1/4 oz. \$1.00.

—**Purple Perfection.** **AGER-3J.** 25¢
Deepest blue; 9"; fine for boxes or beds. cuts. 1/4 Oz. 60¢.

—**Silver Star.** **AGER-3K.** 25¢
Pretty dwarf white; 6". 1/4 Oz. 60¢.

—**Swanley Blue.** **AGER-3L.** 25¢
Azure-blue; thickly bunched; 8". 1/4 oz. 60¢.

—**White Beauty.** **AGER-3P.** 25¢
Considered the best white; 7". 1/4 oz. 60¢

—**Mixed Varieties.** **AGER-X.** 20¢

AGONIS. (ah-GON-is)
Myrtaceae. Willow Myrtle. Aust. sh and trs; fls in dense heads followed by fruits; ornamental; best cut back hard after flowering; does well in limestone areas.

—**flexuosa.** **AGON-2.** 50¢

Willow Myrtle. Scented white fls in summer. 15 ft. (IX); HHSH or graceful small tree; good in limestone areas; cut back hard after flowering.

—**juniperina.** **AGON-4.** 50¢

A good cut flower; white; 5-20 ft; HHSH.

If you will use the regular order blank it will make it possible to keep better record and prevents mistakes.



MILAS the New AGROSTEMMA VARIETY

AGRIMONIA. (ag-ri-MON-ee-ah)

Rosaceae. Agrimony. Erect plants of N temperate zone; fls small, yellow and in racemes; does well in part shade; HP.

—**Eupatoria.** **AGRI-1. 40¢**
Church Steeples. HB; a tea made of the flowering tops has a wide repute for its health giving properties; yellow fls.

—**odorata.** **AGRI-2. 25¢**
Yellow fls; 3 feet; Europe; HP.

—**pilosa.** **AGRI-4. 30¢**
To 5 feet.

AGROSTIS.

(ah-GROS-tis) Gramineae. A group of tufted annual and perennial ornamental grasses; useful in bouquets and for bedding; seed can be sown out doors during April, May or Sept.

A useful ornamental grass.

—**nebulosa.** **AGRO-5. 25¢**
Cloud Grass. Dwarf and very neat; start early indoors for early plants; 1 ft; HA. ½ Oz. \$1.20.

—**puchella.** **AGRO-6. 25¢**
(*Aira capillaris* v. *puchella*) ½ Oz. 95¢.
Hair Grass. Cutting or drying; 1 ft; HA.

AGROSTEMMA. (ag-ro-STEM-ah)

Corn Cockle. Caryophyllaceae. Only two species; others classified here are in *Lychnis*. best by seed; germ in 2 weeks.

—**Githago v. Milas.** **AGRS-1M. 25¢**
Out standing introduction with fls 3 times as large as the ordinary Rose of Heaven. The soft lilac-pink fls are over 2" ac and are carried on graceful willowy stems; splendid for cutting; very showy; easily grown; stands wet weather; HA: 3-4 fls; sow in Mar. direct; germ. 2 wks; fls in 12 wks; HA; 3-4 ft. **Oz. 90¢.**

—Other species: see *Lychnis*.

AILANTHUS.

Simarubaceae. Large trees from Australia and Asia; makes good street and yard trs in cities.

—**altissima.** **AILA-4. 35¢**
Tree of Heaven. To 60 ft; China. **Oz. 90¢; lb. \$2.00.**

AIRA capillaris v. puchella: see *Agrostis*.

AJUGA.

(aj-YEW-guh)
Labiatae. Bugle Weed. Herbaceous annuals and perennials suitable for rockery or border. Many blue, rose or white fls in terminal spikes in June.

—**genevensis.** **AJUG-4. 35¢**

Blue fls; erect plants; 1 ft; HP.

AKEBIA.

(ak-KEE-be-ah)

Lardizabalaceae. Hardy twining shrubs; they are neat and attractive vines easy from seed; easily grown in fairly good soil; fine for arbors or pergolas; fruit edible; 12 ft.

—**quinata.** **AKEB-2. 35¢**
FIVE-LEAF. Purple-brown fls; Korea; neat twining vine; hardy. **c. s. Oz. 75¢; lb. \$5.00.**

—**trifoliata.** **AKEB-3. 30¢**
(*A lobata*) Three-Leaf. China; hardy in N. **Oz. 75¢; lb. \$4.50.**

ALBIZIA.

(al-BIZ-ee-ah) Leguminosae. Germination much as for *Acacia*, which see; seed can be supplied the year round; best to scarify or soak 15 minutes in sulphuric acid.

—**distachys.** **ALBI-2. 40¢**
An Australian species.

—**Julibrissin.** **ALBI-1. 30¢**
Silk Tree. Japan; 30 ft; sow in spring. About 100 seeds to Oz. **Oz. 60¢; lb. \$2.50.**

—**speciosa.** **ALBI-1C. 30¢**

—**Lebbek.** **ALBI-9. 40¢**
(*Acacia* L) Siris-tree, Women's Tongue Tr to 50 ft; tropical; for far S. **Oz. \$1.30.**

—**lophantha.** **ALBI-8. 50¢**
(*Acacia* l.) Plume *Acacia*. Sh or tr to 20 ft; yellow fls in 2" spikes; good GH. **Oz. 90¢**

—**stipulata.** **ALBI-15. 40¢**

—**Mixed.** **ALBI-X. 25¢**

ALECTRYON.

(ah-LEC-try-on)

Sapindaceae. N. Z. and Aust. evergreen trees, hardy in the South.

—**excelsum.** **ALEC-3. 50¢**
Attractive foliage tree from N. Z. bearing scarlet and black seeds; 20 ft; probably will stand 30 degrees of frost.

ALETIS.

(AL-et-riss)

Lilaceae. Star Grass. Perennial plants with basal cluster of grass-like lvs; fls small, yellow or white in erect spikes; moist sunny places.

—**farinosa.** **ALET-4. 30¢**
Leaves pale yellowish green; 3 ft; fls white; bell-shaped; erect; (IV); HP.

ALEURITES.

Euphorbiaceae. Trees from the tropical regions of the East; fls in terminal panicle cymes; fr. Chestnut-like; good shade tr in far South; sow seeds where they are to grow or transplant early.

—**cordata.** **ALEU-1. 40¢**
Japanese Wood-Oil-tr. To 30 ft.

—**Fordi.** **ALEU-3. 35¢**
Tung Oil; Chinese Wood-oil. 25 ft tree. **Oz. \$1.00.**

ALISMA.

(al-LIS-muh)

Water Plantain. Alismaceae. Aquatics plants; fls in panicles; grown in ponds; germination seed in water.

—**Plantago-aquatica.** **ALIS-2. 40¢**
Fls ½" ac; in panicles; 3 ft; (III)

ALLAMANDA.

(al-ah-MAN-dah) Apocynaceae. Ev. cl. shs with leathery foliage; ideal in conservatories or in large windows; rich soil needed; can be set outdoors during summer.

—**critharta.** **ALLA-1. 50¢**
Tall climber; golden yellow fls, 3" ac;

Brazil.

- neriifolia. **ALLA-6. 50¢**
Oleander. 3 ft; golden yellow fls 1½" ac.

ALLOPHYTON.

Scrophulariaceae. Perennials native of C. America.

- mexicanum. **ALLO-3. 50¢**
(Tetranema). (Penstemon mex.) A GH pl; fls ½" long in clusters 8" long.

ALLIUM

(AL-ee-um) Nearly all those listed are hardy perennials and are attractive in the border, and some in the rockery. Sow seed as for perennials, usually early spring; a rich sandy soil best; full sun. A few species come in dry bulbs in late summer. These are noted as (Bulbs) in following.

- acuminatum. **ALUM-1. 50¢**
Hooker's Onion. Ideal for RG; May; deep rose-purple to nearly white; 3-6 in. umbels 2-3 in. across.
- albopilosum. **ALUM-2. 25¢**
Lilac fls in umbels; 8"; dandy; (Bulbs). Bulbs in Sept; see Blub List. **C-23.**
- ammiphylum. **ALUM-4. 30¢**
Golden yellow fls; Europe; HP.
- Beesianum. **ALUM-11. 30¢**
Deep blue fls edged white; in nodding umbels; 18"; HP.
- japonica. **ALUM-14. 50¢**
- chrystophii. **ALUM-24. 50¢**
- cowanii. **ALUM-22. 30¢**
- Cyrillii. **ALUM-25. 50¢**
Much like A. nigrum; 18"; white or violet fls in dense umbels.
- Farreri. **ALUM-29. 40¢**
To 1 ft; flowers reddish purple in loose umbels; China.
- fistulosum. **ALUM-33. 25¢**
Welch or Spanish Onion. White fls; use mainly for eating; HP.
- karataviense. **ALUM-45. 40¢**
Most striking of all Alliums; limestone soil; very hardy; flowers whitish, rose tinged; 4-6 inch stems; C-1 or 23.
- Moly. **ALUM-50. 35¢**
- montanum; see A. senescens.
- neapolitanum. **ALUM-58. 30¢**
Large 3-inch white fls; 1 ft; S. Eu; also offered in bulbs.
- Seed best sown in fall soon as ripe.
- peninsulare. **ALUM-72. 25¢**
Rose-purple fls in loose umbels; 1 ft; HP.
- Porrum. **ALUM-73. 25¢**
Leek. Hardy perennial Onion-like plant.
- praecox. **ALUM-74. 25¢**
White fls with bright purple mid-vein; 1 ft; HP.
- pulchellum. **ALUM-75. 40¢**
White fls with a green mid-rib; 1 ft; HP. (Seed was short this year—expect more.)
- pyrenaicum. **ALUM-78. 25¢**
White fls with a green mid-rib; 3 ft; HP.
- roseum. **ALUM-81. 25¢**
Rose fls in loose umbels; 18"; HP.
- rubrum. **ALUM-83. 30¢**
Flowers replaced by reddish bulbels; 1 ft; Rocky Mts; HP.
- senescens. **ALUM-90. 25¢**
(A. montanum) Lilac fls in many flowered umbels; 2 ft; Eu; HP.
- Stellerianum. **ALUM-95. 30¢**
Pink fls in loose umbels; 1 ft; Eu; HP.
- tanguticum. **ALUM-99. 30¢**
Bluish lilac with darker mid-rib; dense
- tibeticum. **ALUM-102. 35¢**
Deep blue fls; 6"; Tibet; HP.
- triccum. **ALUM-87. 25¢**
- Scscoenoprasum. **CHIVES. 2 ft; HP; a valuable herb; onion**

- like flavor; used in salads. **Oz. 80¢; lb. \$6.00**
- sibirum. **ALUM-87S. 40¢**
Different leaves; smaller plant.
- triquestrum. **ALUM-104. 40¢**
Large white fls in loose umbels; 18"; HP.
- tuberosum. **ALUM-105. 25¢**
Leaves not hollow; July-Sept; 18"; HP.
- unifolium. **ALUM-106. 25¢**
Pink Allium. Calif; 15"; bright rose; HHP
- ursinum. **ALUM-108. 50¢**
- Allium Blend. **ALUM-X. 25¢**
All mixed.

ALNUS.

(AL-nus)

Alder. Betulaceae. Deciduous trs and shs, native to moist soils and cool or cold climates; momoecious; sow seed early spring best.

- Alnobetula; see viridis.
- cordata. **ALNU-3. 25¢**
Italian A. Tree to 70 ft. **Oz. 80¢; lb. \$4.50.**
- firma v. hertella. **ALNU-6H. 30¢**
Tr to 30 ft; lvs 5" long; Japan. **Oz. 60¢.**
- glutinosa. **ALNU-10. 25¢**
Black A. Tr to 75 ft; **Oz. 50¢; lb. \$3.00.**
- Owler. Bark and lvs good in bitters and Wood Leek. Greenish white fls in early umbels; HP.
- spring; deciduous; 6-12"; HP. **PLANTS ONLY: 50¢ each; 3 for \$1.40.**
- hirsuta. **ALNU-11. 35¢**
Manchurian A. Tr to 50 ft; lvs 6" long. **Oz. \$1.00; lb. \$4.00.**
- incana. **ALNU-13. 25¢**
Speckled Alder. Sh or tr to 40 ft; **Oz. 50¢.**
- japonica. **ALNU-14. 50¢**
Tree to 70 ft; Japan. **Oz. \$1.00; lb. \$6.00.**
- nepalensis. **ALNU-18. 35¢**
Large quick growing shade tr; Himalayas
- viridis. **ALNU-30. 25¢**
European Green Alder. Shrub; 6 ft; the cones in racemes. **Oz. 50¢; lb. \$4.00.**
- speciosa. **ALNU-30S. 35¢**
Oz. 60¢.

ALOE.

(AL-oh) Liliaceae. Perennial succulent plants native of the Cape; they make nice ornamental pot plants in the N; grow in sandy soil with a little peat and rotted manure and small chunks of old mortar or lime; keep on dry side; few can stand even a light frost; never insert cutting in the soil, set butt ON soil and stake upright. Seed germinates readily in pans or flats.

- chebandii. **ALOE-16. 35¢**
Coral red fls; S. Rhodesia.
- comosa. **ALOE-17. 50¢**
- Fosteri, Orange. **ALOE-28G. 50¢**
- Scarlet. **ALOE-28S. 50¢**
- Yellow. **ALOE-28Y. 50¢**
- microstigma. **ALOE-60. 50¢**
Whitish H-shaped markings on lvs; 10"; orange-red fls; excellent species.
- plicatilis. **ALOE-72. \$1.50**
This is exceptionally rare in seed. In 20 years, it has been offered only once in a German seed list.
- rubrolutea. **ALOE-78. 50¢**
- variegata. **ALOE-107. 50¢**
(Tiger Aloe) Attractive variegated lvs; most popular. **Seeds about \$1.50 per 100.**
- Mixed. **ALOE-X. 50¢**

ALONSOA.

MASK FLOWER

(al-on-SOH-ah) Scrophulariaceae. Easily grown in a warm location. Sow seeds indoors in early spring and set after frost danger; for growing indoors in winter, sow in summer and set plants indoors early in

the fall before frost; they are best grown as annuals; sun; nice in mass plantings.

—**Warszewiczii.**

ALON-7. 25¢

Cinnabar or scarlet-red; 3 ft; Peru; grow as an HHA in N; space 10"; excellent in mass plantings; a blaze of bloom July-Oct. Oz. 90¢.

—**Alonsoa Blend.**

ALON-X. 25¢

ALSOPHILA.

(al-SOFF-il-uh)

Cyatheaceae. Mostly tropical species for the far South or indoor growing.

—**australis.**

ALSO-1. 50¢

To 20 ft; grown in the GH or in far S.

ALOYSIA: see **Lippia.**

ALSTONIA.

Apocynaceae. Tropical trs and shs of Malaya and S. Pacific.

—**scholaris.**

ALSN-6. 40¢

Devil Tr; Pali-Mara. 60 ft; ornamental, for far S; India.

ALSTROEMERIA.

(al-stre-MEE-ri-ah So. American plants grown from tuberous roots that are treated as bulbs. Rich soil and a sunny position needed. Seed can be planted in pots in Aug. or later, which will bloom the following summer. Try starting the seed at 70 deg. F. at first; germination variable and it ranges from 10-60 days; fresh seed best.

Orange, spotted red; very early; 3 ft; (VI); HP. ½ Oz. \$1.25.

—**Ligita.**

ALST-5. 30¢

Pink, red and yellow fls; 2 ft; HP.

—**Hybrids.**

ALST-5H. 25¢

Hybrids of the above species.

—**pulchra.**

ALST-5P. 25¢

This has longer and narrower leaves.

—**chiliensis.**

ALST-3. 35¢

Rose or red fls; 4 ft; Chile.

—**versicolor.**

ALST-12. 35¢

Yellow, spotted purple fls, 1" long; 1 ft.

—**Alstroemeria Mixed.**

ALST-X. 25¢

ALTHAEA.

HOLLYHOCK

(al-THEE-ah) Flowers in terminal erect racemes or spikes; easily grown in any good garden soil. Mostly perennial; the biennials, of which the common Hollyhock is the main subject, can be started in July for flowers the following summer; C-8.

—**caunabina.**

ALTH-2. 35¢

Bushy HP to 6 ft; numerous sweet scented pink fls.

—**ficifolia.**

ALTH-3. 25¢

Fig-leaf Hollyhock. Deep yellow fls; 6 ft; HP.

—**rosea:** see under **HOLLYHOCK. (C-23).**

—**taurinisens.**

ALTH-18. 50¢

True to species.

ALYSSUM

(ah-LISS-um) Annuals and perennials, trailing to 1 ft. in height and all showy; the perennials bloom very early in the spring; the annuals during early summer.

MARITIMUM: Under this species are the common annual Alyssum varieties. Botanically they are *Lobularia maritima*. They are all hardy annuals doing best when started early; they are used in edging or bedding, in pots and baskets as well as the rockery; all low growing and free flowering; sow seed during Mar-Apr direct; germ. 3 wks; thin to 3" apart.

PROCUMBENT TYPE:

—**Carpet of Snow.**

ALYS-15C. 20¢

Compact strain; pure white fls; 3"; HA. Oz. \$1.30.

—**Snow Cloth.**

ALYS-15S. 2¢0

Very dwarf; compact; snow-white; 3". HA. ½ Oz. 75¢.

—**Little Gem.**

ALYS-15G. 20¢

Compact 6" plants; pure white. Oz. \$1.50.

—**Lilac Queen.**

ALYS-15Q. 20¢

Deep violet; 6"; very pretty. Oz. \$1.50.

—**Pink Heather.**

ALYS-15PH. 35¢

A new lavender-pink variety; 6 inches.

—**Violet Queen.**

ALYS-15V. 20¢

Uniformly deep violet, compact, fragrant; 6"; HA. ½ Oz. \$1.00.

—**Sweet Maritimum.**

ALYS-15M. 20¢

Very fragrant; 1 ft; white; useful in boxes and baskets; HA. Oz. 60¢; lb. \$4.00.

—**Mixed Annual Alyssum.**

ALYS-15X. 20¢

—**Tetra Snowdrift.**

ALYS-15SD. 25¢

NEW giant flowered white. Oz. \$1.25.

—**Royal Carpet.**

ALYS-15R. 25¢

Procumbens; Violet Queen color on a Snow Cloth plant habit. Oz. \$2.00.

ALYSSUM SPECIES:

—**alpestre.**

ALYS-1. 35¢

Gray tufted HP to 3-4"; yellow fls in short racemes; listed as *serpyllifolium*. ½ Oz. \$1.75.

—**arduini.**

ALYS-8. 30¢

Golden yellow fls; 6"; HP.

—**argenteum:** see **A. murale.**

ALYS-16. 25¢

—**lutescens.**

Bright yellow, dense panicles; 1 ft; Al-



ALYSSUM — Snow Cloth

bania; HP.

—**Markgriffii.**

ALYS-17. 35¢

Bright yellow; dense panicles 1 ft; HP. (Seed was short this year—expect more.)

—**Molelendorfianum.**

ALYS-19. 35¢

Yellow fls; silvery fol; Bcsnia; 5"; HP.

—**montana.**

ALYS-20. 25¢

Showy trailer; deep yellow fls; 3"; RG. ½ Oz. \$2.30.

—**murale.**

ALYS-21. 35¢

(A. argenteum) Yellow tufts. Dwarf, 15"; silvery fol; deep yellow fls in clustered heads; blooms all summer. ½ Oz. \$1.50.

—**orientale.**

ALYS-22. 35¢

White or pinkish; woody; 1 ft; S. Eu; HP.

—**ovirens.**

ALYS-23. 35¢

Golden yellow fls in umbellata racemes; 6" HP; Cent. Eu.

—**pedomontanum.**

ALYS-24. 30¢

—**repens v. Wierzbickii.**

ALYS-27W. 40¢

Erect stems; large orange fls.

—**saxatilis v. Gold Dust.**

ALYS-26G. 25¢

Golden yellow fls; 4"; April; HP; C-23. all varieties best started in Aug. or Feb or April.

—**argenteum.**

ALYS-26A. 25¢

Yellow fls; silvery foliage. ½ Oz. \$1.00.

—**compactum.**

ALYS-26C. 25¢

A compact strain; masses of yellow fls; April-May; 1 ft; HP. ½ Oz. 75¢.

—**Silver Queen.**

ALYS-26S. 25¢

Primrose fls; fine for RG; 1 ft; HP.

- sulphureum. **ALYS-26U. 25¢**
Pretty sulphur-yellow; 1 ft; HP. ½ Oz. \$2.00.
- spinosum. **ALYS-31. 25¢**
Silvery fol; white fls; 1 ft; HP.
- Wiezbickii: see *A. repens*.
- Wulfenianum. **ALYS-39. 50¢**
(Rochelii) Similiar to *A. montanum*; HP.
- Rock Garden Sp. Mixed. **ALYS-34X. 25¢**
Contains perennial species suitable for the rockery.

AMARANTHUS

(am-ah-RAN-thus) Annuals native of mild climates and grown for their colored foliage and the large red flowers; they are easily grown and will produce better flowers if grown on poor soil; for that dry bank these should be fine; full sun; tender; C-7; these will not germinate well below 65 Fah; germ. 11 days.

It is not commonly known that *Amaranthus* makes excellent dried fls; also good cut-flowers.

- caudatus. **AMAR-1. 20¢**
Love-Lies-Bleeding. Long drooping red fls; 4 ft; space 18"; HA; this makes excellent dried flowers. Oz. \$1.00.
- oeschberg. **AMAR-1B. 20¢**
Erect, dark red fls; HA. Oz. 50¢.
- viridis. **AMAR-1W. 20¢**
Same but with white fls. Oz. 50¢.
- nanus. **AMAR-1N. 25¢**
A dwarf form.
- hybrid hypochondriacus. **AMAR-2H. 25¢**
Prince's Feather. Showy; red feather-like fls; 3 ft; space 18"; HA. Oz. 60¢.
- gaugelicus melancholicus ruber. **AMAR-29. 35¢.**
- Tricolor. **AMAR-4. 20¢**
Joseph's Coat. Erect; leaves blotched and colored; 3 ft; HHA; space 1 ft. ½ Oz. 75¢.
- Apollo. **AMAR-4A. 30¢**
Three-colored variety, shining at a long distance.
- Fireking. **AMAR-4K. 35¢**
Deep red foliage with fiery crimson head; 5 ft.
- salicifolius. **AMAR-4S. 20¢**
Fountain Plant. Narrow willow-like fol. brilliantly colored with carmine, crimson and bronze; fine ornamental fol plant either for bedding or pots; 18"; HHA. ½ Oz. 60¢.
- marmoratus. **AMAR-4M. 30¢**
Green and yellow sprinkled over marble like, with brilliant crimson-red
- Molten Fire. **AMAR-4F. 25¢**
Maroon foliage, each branch tipped crimson; 4 ft; TA. ¼ Oz. 75¢.
- Pigmy Torch. **AMAR-4P. 25¢**
Dark crimson fls; dwarf plant; 1 ft; TA. ¼ Oz. 50¢.
- splendens. **AMAR-4N. 30¢**
Rich red with brilliant light red foliage at top of the plant. ¼ Oz. 50¢.
- Sunrise. **AMAR-4R. 30¢**
Bronze, crimson and scarlet; 3 ft; TA. Oz. \$1.00.
- melancholicus. **AMAR-29. 30¢**
Compact; blood-red; very large foliage.
- ruber. **AMAR-29R. 30¢**
Dark red leaves. ¼ Oz. 60¢.
- Amaranthus Blend. **AMAR-X. 20¢**
All kinds mixed. Oz. 45¢.

CALCHORTUS.

Don't fail to try growing this beautiful flowering bulb from seed—the blend offered contains most all of the species. Pkt. 50¢. See varieties under their listing.

AMARYLLIS.

(am-ah-RIL-is) One species, *A. belladonna*, of which there are several varieties and forms. Just lately the botanical name has been changed to *Brunsvigia rosea*.

Sow seed in pans; soil MUST be loose and granular to allow air and moisture to penetrate easily; plant seeds in rows, seeds 1" apart; cover seed with ¼" loose fine soil which must ALWAYS be moist, never allow to dry out (important); not soaked but MOIST; temperature 60 to 70 Fah; keep from direct sunlight; give some light at 3 weeks after germination; never transplant till after all 3 leaflets have developed; soil then should contain well rotted manure; a mist sprayer would be ideal for growing these seeds.

LUDWIG STRAIN.

AMAR-L. \$1.00.

This strain is of superior quality, grown by experienced *Amaryllis* growers and undoubtedly the best to be had; fresh seed is produced about July when 95% germination is possible; we have special storage for delivery thru-out the year.

—Pure White. **AMAL-2W. \$2.50**
This is for 25 seeds; a selected pure white Ludwig variety.

—Other Colors. **AMAL-2T. \$2.50**
This is for 25 seeds in red, dark red, light red, rose, salmon, orange, striped and mixed

—aracillis. **AMAL-2G. \$2.50**
For 25 seeds; miniature *Amarallis*; pure Ludwig strain.

—Hippestrum. Mixed. **AMAL-8. 50¢**
100 seeds, \$3.00; 500, \$9.00. (Fresh) For

—Hybrids. **AMAL-1H. 50¢**
These hybrids range in colors from deepest garnet to almost white; extra choice seed; (15 seeds to pkt).

—Mixed Hybrids. **AMAL-X. 40¢**
Mammoth flowers in various colors and blends. ½ Oz. \$4.50.

AMBERBOA.

(am-bur-BOH-ah) Compositae. Annuals with jaggedly cut or divided leaves and flower heads in purple, blue or pink, resembling Bachelor Buttons; easily grown from seed and should be planted where the plants are to grow; half hardy annuals native of Spain and Morocco; sow during March-April direct; thin to 9"; germ. 9 days at 55-60 Fah; fls in 16 weeks continuing to Sept.

—muricata. **AMBR-2. 25¢**
Stars of pale purple with creamy centers; excellent cut-fls with faint sweet fragrance; easy; HHA.

AMBROSIA mexicana: see *Chenopodium*.

AMELANCHIER. (am-ee-LHNK-ee-uh)

Service-Berry; June-B. Rosaceae. Showy shs or sm. trs; hardy in N; fls very early in the spring; germinates best when sown after gathering; spring sown seed will take as much as 2 yrs; or sow in containers to be left in open to freeze during winter and then brot indoors in spring to germinate.

—alnifolia. **AMEL-2. 25¢**
7 ft; (III). c.s. Oz. \$2.00; lb. \$14.00.

—asiatica. **AMEL-5. 35¢**
Tr to 40 ft; lvs white tomentose beneath; (IV); Korea. Oz. 75¢.

AMELLUS.

(ah-MEL-lus)

Compositae. S. Af. plants with blue-ray flowers; low growing; light sandy soil; start indoors Mar-Apr at 60-65 Fah; germ 5 days.

—**Lychnitis.****AMES-6. 35¢**

Lavender colored Daisy; 18"; TP.

AMMOBIUM.

(am-MOH-bi-um) Compositae. Australian everlastings, tender perennials with solitary heads of yellow fls surrounded by silvery white bracts; easy; grow as an annual; fls remain white if cut early; sow in Apr. when they will flower same season; plant direct to the garden.

—**alatum.****AMOB-1. 20¢**

Winged Everlasting. To 3 feet; white woolly; 3 ft; heads 2" across; HHA. space 9 inches. Oz. 50¢.

—**grandiflora.****AMOB-1G. 25¢**

Large white fls. Oz. 80¢.

AMMOPHILA.

Graminae. Perennial grasses with creeping stalks; good sand builders.

—**breviligulata.****AMMO-5. 50¢**

American Beach-grass. Found on sand dunes of Lake Michigan; good sand binder.

AMORPHA.

(am-MORF-uh)

Leguminosae. False Indigo. Grown for ornament; most are hardy in the North.

—**canescens.****AMOR-3. 30¢**

Lady Plant. Blue fls in 6" spikes; July-Aug; (III) 4 ft; HP. Oz. 60¢; lb. \$3.00.

—**crocea-lanata.****AMOR-6. 35¢**Allied to *A. fruticosa*; (V).—**fruticosa.****AMOR-7. 25¢**

Bastard Indigo. 20 ft; May-June; fls dark purple; very hardy; (III) Oz. 50¢; lb. \$1.50.

AMPELOPSIS.

IVY

(am-pe-LOP-siss) Tendril climbing deciduous shrubs belonging to the grape family. Grows well in any fair soil; some not hardy in the North; C-24.

—**brevipedunculata v. Maximowiczii.****AMPL-5M. 35¢**

(heterophylla) Lvs 5" long; fr blue; lvs deeply lobed; green and white, shaded and marked red or pink; excellent indoors too and stands semi-shade. Oz. 80¢.

—**quinquefolia.****AMPL-13. 25¢**

Virginia Creeper, American Ivy. (Parthenocissus). c. s. Oz. 50¢; lb. \$2.50.

—**Veitchii.****AMPL-12. 25¢**

Boston Ivy. C-24. Oz 90¢.

AMPHICOSMEA.—**Walkerii.****AMPH-30. 50¢****AMSONIA.**

(am-SOH-ne-ah) Apocynaceae. Perennials 1-3 ft. tall, having bluish fls followed by rather attractive milk-weed pods; for the border; easily grown.

—**illustris.****AMSO-4. 25¢**

Sky-blue fls in dense clusters; 2 ft.

—**Montana.****AMSO-3. 25¢**

Low RG species with pale blue sprays of small starry fls; choice.

—**Tabernaemontana.****AMSO-9. 50¢**

Star flowers soft blue; May-June; HHP.

ANACAMPSEROS. (an-ak-KAMP-ser-uh)—**filamentosa.****ANAR-7. 40¢**—**rosulata.****ANAR-11. 40¢****AMYGDALIS communis:** see *Prunus*.**ANACYCLUS.**

(an-ass-SYE-klus) Compositae. A race of daisies from Med. regions related to the Pyrethrum; a few species are very desirable dwarf perennials with finely cut foliage and large white or yellow daisy-like fls with backs of the rays striped with brilliant red; sunny, stoney places; C-7.

—**maroccanus.****ANAC-3. 40¢**

Flowers later than *A. atlanticus* and keeps a succession of red and white fls for 6-8 weeks; 2 inches.

—**Anacyclus Blend.****ANAC-X. 20¢****ANAGALLIS.**

PIMPERNEL

(an-ah-GAL-is) Primulaceae. Low growing annuals, biennials and perennials having pretty little star-like flowers in red, blue and white, that grow out of the axils of the leaves on hair-like stems. Very free flowering; some especially nice for the rockery; best in a loose warm soil; C-7. start indoors in March at 60-65 Fah; germ, 18 days.

—**arvensis v. caerulea.****ANAG-1C. 35¢**

Poorman's Weatherglass. Indigo-blue fls; 9"; HA.

—**grandiflora.****ANAG-5G. 35¢**

Gentian blue fls. ¼ Oz. \$1.00.

—**linifolia.****ANAG-5. 35¢**

Mixed colors; large flowered form; July-Sept; space 6". Oz. \$2.50.

—**Scarlet.****ANAG-2S. 25¢**—**Mixed.****ANAG-5X. 30¢****ANAPHALIS.**

(an-NAF-al-iss) Compositae. White woolly perennials for the RG or border; small white fls can be used as everlastings.

—**margaritacea.****ANAP-1. 20¢**

Upright; 16"; dense gray woolly pl; in masses of pearly white fls; this is excellent for dried fls; HP.

ANCHUSA

(an-KE U-suh) Boraginaceae. Excellent perennials for summer border in a sunny place; hardy; easily grown, flowering in July-August or even later. Comes mainly in blue shades; best in a good soil with plenty of old manure. Be careful not to damage tap root when transplanting; C-2. germ. 12 ways; keep seed at 60-65 Fah if started in doors.

—**azurea, Dropmore Variety.** **ANCH-2D. 20¢**

Lovely bright blue; 4 ft; HP; C-23. Oz. \$1.50.

—**Lissadell.****ANCH-2L. 30¢**

Larger fls than Dropmore and deeper blue; HP. Oz. 90¢.

—**Opal.****ANCH-2P. 25¢**

Same but a lighter blue; HP.

—**capensis, Blue Bird.****ANCH-4B. 25¢**

Vivid indigo-blue, compact; 18"; HA. space 18"; C-23. Oz. \$1.00.

—**Pink Bird.****ANCH-4P. 25¢**

A new pink colored variety; very showy; compact habit; very light rose. ½ Oz 60¢

—**Sky-Blue.****ANCH-4S. 30¢**—**myosotidiflora:** see *Brunnera macrophylla*—**riparia.****ANCH-9. 25¢**

Bright to dark blue fls; 2½ ft. HHP.

—**officinalis.****ANCH-7. 35¢**

Bugloss. HB; 2 ft; garden herb.

—**Anchusa Blend.****ANCH-X. 20¢**

Both annual and perennial kinds mixed.

If you should receive a credit order blank reorder on the blank and take the credit due from the total. Or a cash refund will be made upon request.

ANDROMEDA.

(an-DROM-ed-uh)

Bog-Rosemary. Ericaceae. Low ev. gr. sh; grown in rockery or border; very hardy; requires acid soil.

—japonica: see under *Pieris*.

—polifolia.

ANDM-8. 40¢

To 1 ft; stem stalks creeping; fls $\frac{1}{4}$ " long.

Oz. \$1.00.

ANDROPOGON.

Beard-grass. Gramineae. Perennial grasses of botanical interest.

—furcatus.

ANDO-10. 50¢

6 ft; racemes 5" long; collected on Lake Michigan dunes; HP.

ANDROPOGON.

—girardii.
Turkeyfoot grass.

ANDP-5. 50¢

ANDROSACA.**ROCK JASMINE**

(an-DROS-ah-see) Primulaceae. True alpine annuals and perennials for the rockery or low border; many require special handling in the alpine or rock garden. Leaves usually tufted or in rosettes and often woolly; flowers are small, in red, pink or lavender, usually borne in rather flattened rounded clusters. They require a dry, gritty, well drained soil but not too suffer from drought; seed may remain in the soil for over a year. Try freezing for 2 weeks, than place at 50 deg. F; C-23-24. Do not allow seedlings to flower 1st year, these usually die during the winter.

—obtusifolia.

ANDR-15. 60¢

HP; 6 in; white to pinkish fls, $\frac{1}{4}$ " ac, in umbels; Alps.

—septentrionalis

ANDR-20 50¢

To 8"; HA; white or pink fls in umbels best to sow seed during March where they are to grow.

—subumbellata.

ANDR-20S. 35¢

Sprays of small white fls; 5"; HB.

ANELMA.

(an-NELL-mah) Compositae.

—Aequinoctiale.

ANEL-1. 40¢

Perennial; slender erect stems 2-3 ft; mauve fls in terminal panicles; very dainty; S. Rhodesia.

ANEMONE

(ah-NEM-oh-nee) Ranunculaceae. They are attractive perennials blooming in the spring, summer and autumn; fls come in white, rose, red and purple; they thrive in a rich sandy loam, many doing well in shade; they make beautiful plants in the border and some in the rockery. The florist species are *A. coronaria*, *fulgens* and *hortensis*; these come in single and double flowers and are grown mainly as fall and winter flowers, much as one would grow Freesias; these are not real hardy; all Anemones, except *A. nemorosa*, love a lime soil and it is necessary for good fls; they will not tolerate an acid soil.

Anemone seed should be sown inside a month or two after ripening; placing seed in damp sand for 10 days before sowing gives a quick germination; temp 60-65 F. germ. about 3 weeks; very important to keep soil moist after seedlings form.

A. CORONARIA: Poppy-flowered Anemone. This is the popular florist Anemone, only 2 cm corms should be used; large one are no good; even 1 cm. are good.

ST BRIGID:

Single flowers. $\frac{1}{4}$ Oz. 80¢.

—Admiral.

AREN-10A. 30¢

—Blue.

ANEM-10B. 40¢

Double carmine-rose fls. $\frac{1}{4}$ Oz. \$1.50.

—de Cain, Mixed.

ANEM-10DC. 25¢

Single flowers. $\frac{1}{4}$ Oz. 90¢.

—Monarch Strain.

ANEM-10M. 25¢

A new strain in the best of colors.

—His Excellency.

ANEM-10SE. 25¢

Rich velvet-red, with attractive white ring around center. $\frac{1}{4}$ Oz. 80¢.

—Single Giants.

ANEM-10N. 25¢

Large flowered strain in many colors.

—Hollandia.

ANEM-10H. 25¢

Very pretty single red with dark centers. $\frac{1}{4}$ Oz. 80¢.

—St. Brigid.

ANEM-10S. 25¢

True Irish strain; double brilliant flowers; (VII). $\frac{1}{4}$ Oz. 60¢.

—Creagh Castle Strain.

ANEM-10CC. 25¢

Improved strain of St Brigid; outstanding; double fls. $\frac{1}{4}$ Oz. \$1.60.

—Mr. Fokker.

ANEM-10SF. 25¢

Rich deep purple-blue, paler towards center; most prolific of these varieties in cold weather. $\frac{1}{4}$ Oz. 60¢.

—The Governor.

ANAM-10SG. 25¢

Most vivid of all varieties, a pillar-box red; double fls; full and good size. $\frac{1}{4}$ Oz. \$1.00.

—Mixed.

ANEM-10X. 25¢

Blend of the above varieties for greenhouse growing. $\frac{1}{4}$ Oz. 50¢.

OTHER ANEMONE SPECIES:

—alpina.

ANEM-3. 30¢

Cream inside, purplish out; 3" ac; 18"; fine for bare stony soil; tuberous rooted; HP.

—sulphurea.

ANEM-3S. 30¢

A yellow flowered form.

—barbulata.

ANEM-7. 30¢

—biflora.

ANEM-8. 30¢

—canadensis.

ANEM-10. 35¢

(*A. pensylvanica*; *dichotoma*) Meadow A. 2 ft; solitary white fls, 2" ac.

—cylindrica.

ANEM-11. 30¢

Candle Anemone. Greenish white clusters; 3 ft; HP.

—demissa.

ANEM-16. 30¢

White with purple outside; in clusters; August-Sept; 1 ft; HP.

—globosa.

ANEM-19. 30¢

Red to bronze-green fls; July-Sept; 10"; HP.

—rubra.

ANEM-19R 50¢

(multifida) Red flowered variety.

—hepatica: see *Hepatica nobilis*.

—Lesseri.

ANEM-28. 30¢

Dwarf form; fern-like lvs; deep pink fls; Aug-Sept; sun; HP.

—Leveillei.

ANEM-30. 50¢

White fls, rosy pink outer petals; 15"; fibrous roots; April; China.

—magellanica.

ANEM-32. 50¢

White or yellow fls; not a true species.

—Giant Form.

ANEM-32G. 30¢

—montana.

ANEM-34. 30¢

Dark violet, drooping fls; 6"; H P.

—multifida.

ANEM-35. 30¢

—myosotidiflora: see *Brunnera macrophylla*.

—narcissiflora.

ANEM-36. 50¢

White fls, 1" ac in clusters; 18"; HP.

—nicicens.

ANEM-38. 30¢

Purplish black fls; 1 ft; HP.

—nuttalliana.

ANEM-44N. 30¢

Purple fls; very early in spring; 8"; HP.

—pratensis.

ANEM-45. 30¢

Dark purple fls; 1 ft; HP.

—PULSATILLA.

ANEM-46. 25¢

These form a tap root and not a corm;

germinates slowly up to 3 months; be sure to add lime to soil.

Violet fls; April; lime; fine spring fls; 1 ft; HP; popular species; sow in fall to germinate in spring; C-24.

—amoena. ANEM-46E. 30¢
—alba. ANEM-46A. 25¢

A creamy white form of Pasque Flower.
1/4 Oz. \$2.30.

—australis. ANEM-46T. 25¢
—montana. ANEM-46M. 25¢

—Gayeri. ANEM-46G. 25¢
—Mallenderi. ANEM-46L. 25¢

—rubra. ANEM-46R. 50¢
—Violet-Blue. ANEM-46V. 25¢

1/4 Oz. \$2.30.
—ranunculoides. ANEM-49. 40¢

Yellow Wood A. Golden yellow, solitary fls, 1" ac; Apr.-May; 8"; Siberia.

—rivularis. ANEM-51. 30¢
White tinged blue; 1 1/2" ac; 3 ft; India.

Only Anemone that enjoys moist waterside position; HP.

—sylvestris. ANEM-56. 30¢
Pure white; fragrant, nodding fls; May-June; 18"; tuberous rooted; HP.

—virginiana. ANEM-60. 30¢
White or greenish; fine for meadows;

June-Aug; 3 ft; HP.

—vitifolia. ANEM-61. 30¢
Grape-leaf A. White fls 2" ac. in cymes;

July; HP.

—Anemone Blend. ANEM-X. 25¢
Mixture of all kinds.

ANEMONOPSIS.

Ranunculaceae. One Japanese species.

—macrophylla. ANEP-1. 50¢
Pale purple drooping fls; 1 1/2" ac; 3 ft;

rich, moist places; good border plant; HP.

ANETHUM. (AN-neth-um)

Umbelliferae. Annuals and biennials, one of which (Dill) is a popular garden herb.

slow to germinate, sow few radish to break and show row.

—graveolens. ANET-5. 20¢
DILL. 3 ft; annual. Oz. 35¢; lb. \$1.40.

ANGELICA. (an-GEI-ee-ah)

Umbelliferae. Perennials with white or greenish fls; for borders for bold effect.

—Archangelica. ANGE-1. 25¢
This is very slow in its germination; sow few radish to break the soil and show row.

Sow seed as fresh as possible; young stems in May-June for candying and a second crop in Aug-Sept; young stems can be used in salads; lvs make excellent aromatic tea; cook with apples and rhubarb; excellent bee plant when in flower; 8 ft; HB;

will be HP if cut after flowering.

ANGOPHORA. (an-GO-for-ah)

Myrtaceae. Apple or Gum Myrtle. Trs and shrubs; similar to Eucalyptus; fls white in terminal corymbs followed by fruits; E. Australia; profuse bloomers.

—lanceolata. ANGO-10. 40¢
Sydney Red Gum. To 50 ft; smooth pinkish bark and curiously twisted limbs; (IX).

white fls; rapid grower.

ANIGOZANTHOS. (an-ig-loh-ZANTH-os)

Amarylhidaceae. Odd Australian perennials; grown in GH in N; hardy in S.

—flavida. ANIG-2. 40¢
Anthers entirely red, otherwise much like 4.

—Manglesii. ANIG-4. 50¢

Kangaroo Paws. Light soil; sun; summer moisture; red and green 'paws'; good to cut; (VIII); best of all species; 3 ft; IHP; C-24.

—viridis. ANIG-12. 40¢
2 ft; Australia

ANISE: see Pimpinella Anisum.

ANNONA.

(an-NON-nah) Annonaceae. Tropical trs. and shrubs grown for their delicious edible fruits; fls are an odd color, solitary or in clusters; fruits large and fleshy; TTr.

—muricata. ANNO-5. 40¢
Soursoop, Guanabana. 2 ft ev. tr; yellow fls 4" long; fruits; tropical; 65 sd. to oz.

Oz. \$1.20.
—squamosa. ANNO-9. 30¢
SUGAR APPLE, SWEETSOP; decid. tr. to 30 ft. (skwam-MOH-suh); 100 sds to oz.

—reticulata. ANNO-7. 50¢
Bullock's Heart.

ANODA.

(an-NOH-duh) Malvaceae. Mostly annuals, either grown outside for fall flowers or under glass; free flowering; July-Sept; sow seed during March or April where they are to grow; germ 3 weeks.

—lavateroides v. Opelcup. ANOD-4 P. 20¢
Continuous bloomer; June-Nov.; blue and pink fls; space 18"; 3 ft; HA; fast grower.

—Snowdrop. ANOD-4 S. 20¢
Shining snow-white; 30"; profuse bloomer; HA.

ANTENNARIA.

(an-te-NAY-ri-ah) Compositae. Everlasting. Perennials used in the wild or rock garden, also much used as dried flowers in winter bouquets. Best in dry soil, and easily grown. Flowers in heads and the leaves are white-woolly clustered at the base.

ANTHEMIS

(AN-the-mis) Compositae. Golden Marguerite. Very free flowering perennials with daisy-like flowers, blooms June-Sept. It does well on dry sandy soils and in full sun. Sow seeds in late April or early May, outdoors, or they can be started earlier indoors. Thin plants in the garden to 10" apart; profuse bloomers; sow seed direct to garden during March or April; germ. 17 days; fls in 13 weeks, remaining in bloom for 8 weeks or more.

—arabica: see Cladanthus arabicus.
—Cota. ANTH-5. 25¢
—Kelwayi. ANTH-8. 20¢
Pure golden yellow; July to frost; 2 1/4 ft; HP; C-23. 1/4 Oz. 40¢.

—delicatarula. ANTH-7. 50¢
—nobilis. ANTH-10. 40¢
Close growing compact prostrate plants; set 6" apart both ways for carpet; if to be mown, delay till 2nd year. This is the true Camomile; HP; it is a popular herb, the fl-heads producing an oil and for camomile tea. Oz. \$4.00.

—nobilis v. Perry. ANTH-10LY. 20¢
Pretty lemon-yellow selection; 1 ft. HP.

—Double. ANTH-10D. 30¢
If the plant and fls are wanted as a medicinal herb, this is the type used.

—simplex. ANTH-10S. 25¢
Larger flowers than the type.

—Sancti-Johannis. ANTH-13. 20¢
Deep orange fls, 2" heads; 3 ft. 1/4 oz. 70¢.

Gray-green lvs. Oz. \$1.50; lb. \$12.00.

- tincitoria*. ANTH-14. 20¢
Golden yellow ray-fls; fine cut; 2½ ft.
- Perry's Variety*. ANTH-14P. 25¢
Bright lemon-yellow; 2 ft; HP. Oz. 80¢.
- Anthemis Mixed*. ANTH-X. 20¢

ANTHERICUM.

(an-THER-i-kum) Liliaceae. Tuberous-rooted herbs of the Lily Family having racemes of small white lily-like flowers and long narrow grass-like leaves. In the North they require winter protection; they make fine greenhouse plants or for use in lawn vases during the summer; requires plentiful supply of water when in bloom; 50-60 deg. Fah in winter; C-35.

The seed must be pressed out of the berry before sowing; grow at 60-80 Fah. during day; shade; humid atmosphere; wet oil and rich humus soil. 100 berries will give 200-300 good seeds.

- Liliago*. ANTE-31. 50¢
Neat species; small white fls; 18"; HP.
- liliasrum*. ANTE-29. 60¢
- scherzerianum*. ANTE-55. \$1.00
Hybrid from the best pedigreed strain; berries ripe during spring. Order early. 100 berries \$18.00.
- undulatum*. ANTE-65. 50¢
White fls in racemes; easy; native S. Af. 1 ft; HHP.

ANTHOLYZA *aethiopica*: see *Chasmantha*.

ANTHRISCUS. (an-THRISK-us)

Umbelliferae Grown for its lvs, used in salads; Chervil being the main species; the tuberous Chervil is *Chaerophyllum*.

- Cerfolium* ANTS-2. 25¢
Salad Chervil. Hardy annual; 2 ft; grow for sp. and fall crops; in S the fall crop can be held over winter; space 10"; grow same as Carrots; excellent for garnishing. Oz. 50¢; lb. \$2.00.

ANTHYLLIS. (an-THILL-iss)

Leguminosae. Per. plants from Eu. and Asia; fls in dense Clover-like heads; ornamental.

- montana v. carminea*. ANTY-5C. 50¢
1 ft; white silky lvs; pink fls; Alps; HP.

ANTHURIUM.

Araceae. Tropical Amer. plants grown in the GH as pot plants; very pretty; requires a temperature of 60 Fah and humid atmosphere; sow seed under bell-glass or covered pan at 80 Fah. Orders are back-ordered and sent as fresh seed comes in.

These seed only last a short time; sent by air mail; must be planted immediately.

I can supply the following species during the growing season.

- Andraenum* hybrids. ANTU-3. \$1.00
- bogotense*. ANTU-5. \$1.00
- caribbea*. ANTU-8. \$1.00
- x hoffmanii*. ANTU-8H. \$1.00
- coriaceum*. ANTU-10. \$1.00
- crystallinum*. ANTU-14. \$1.00
- var Weitschii*. ANTU-14W. \$1.00
- crassinervum*. ANTU-16. \$1.00
- digitatum*. ANTU-18. \$1.00
- Forgetii*. ANTU-21. \$1.00
- gracile*. ANTU-23. \$1.00
- Hoffmanii*. ANTU-27. \$1.00
- Huegellii*. ANTU-30. \$1.00
(Hookeri).
- longilinguum*. ANTU32. \$1.00
- lombada*. ANTU-31. \$1.00
- macrolobium*. ANTU-34. \$1.00
- magnificum*. ANTU-36. \$1.00

- ornatum*. ANTU-39. \$1.00
- Pittieri*. ANTU-42. \$1.00
- Scherzerianum* *hyb* ANTU-55H. \$1.00
- v. Rothschildianum*. ANTU-55R. \$1.00
- sub-siznatum*. ANTU-58. \$1.00
- undatum*. ANTU-66. \$1.00
- wrightii*. ANTU-75. \$1.00

ANTIGONON.

(an-TIG-oh-non) Polygonaceae. A tendrillar climber grown as a GH vine in the N but a popular hardy climber in the S where it has a long booming season; in the GH it requires plenty of light; not too much root room; keep roots dry during rest in the winter.

- leptopus*. ANTI-35¢
Climber to 40 feet; rose-pink flowers; Mexico; tender; (IX); (LEP-toh-pus) Oz. \$2.00. 250 seeds to oz; best from seed.

ANTIRRHINUM

Snapdragon. Scrophulariaceae. Very popular cut-flowers, both in the garden and in the greenhouse. Start indoors as early as Feb. for an early start or as late as April; the seed may be slow in germinating. For winter fls start in August and get seedlings into pots as soon as possible; pinch off terminal bud at the start to get several stems growing.

Sowing out doors in Autumn often makes good Spring plants; (an-tehr-RYE-mum). The fresh juice of the plant attracts and kills flies mixed with water in saucer.

TETRA SNAPS: Spikes 1 ft. long; strong husky growth; ideal for greenhouse growing; popular with market growers; C-10.

- Candlelight*. ANTR-9L. 35¢
Pure yellow.
- Crimson*. ANTR-9C. 35¢
Velvety crimson ¼ Oz. \$1.25.
- Pink Shades*. ANTR-9P. 35¢
Light pink to mid-rose. ¼ Oz. \$1.25.
- Rose Shades*. ANTR-9Z. 35¢
Fine deeper shades of rose. ¼ Oz. \$1.25.
- Sky Scrapper*. ANTR-9K. 35¢
Tallest growing of all Snaps; 3 ft; in a glorious blend of pastel shades. ¼ Oz. 75¢.
- Sunset Hybrids*. ANTR-9S. 35¢
Vary from light primrose-yellow flushed pink to rosy orange. ¼ Oz. \$1.25.
- White*. ANTR-9W. 35¢
Light creamy white changing to pure white with age. ¼ Oz. \$1.25.

KING'S COURT

- King's Court*. ANTR-9KC. 40¢
F2 Hybrid, extremely early blooming, being 10-14 days earlier than the regular majus gr. fl. or the Tetras. Also taller, stronger stemmed and with many more and larger blossoms more closely spaced on the stem; color range is complete with clearest of whites, yellow, soft and strong pinks, rose, crimsons and scarlets, mingled with many intermediate shades. ¼ Oz. \$2.00.

- Burpee Blend Tetras*. ANTR-9X. 30¢
A superfine extra giant flowered blend; blooms extremely large and a little frilled, containing a wide range of fine colors. ¼ Oz. 75¢.

ALL RUST RESISTENT STRAINS

MAJUS GRANDIFLORUM: Tall, large flowered, making excellent garden cut-

flowers; strong growers.

- Firefly.** ANTR-1F. 25¢
Crimson and yellow; very popular color.
- Naremek Strain Mixed.** ANTR-1N. 25¢
A striking new strain in two-toned combinations. 1/2 Oz. 85¢.
- Primrose Queen.** ANTR-1Q. 25¢
Very large fls in a soft primrose color.
- Prince of Orange.** ANTR-1P. 25¢
A popular orange color; excellent cut.
- Queen Victoria.** ANTR-1V. 30¢
The best pure white; necessary in all lots.
- The Sentinel.** ANTR-1S. 25¢
Bright orange-scarlet with white throat.
- Vulcan.** ANTR-1L. 25¢
A very bright crimson-scarlet with dark foliage; pretty.
- Yellow King.** ANTR-1K. 25¢
Best pure rich yellow.
- Blend of Above Varieties.** ANTR-1X 25¢
Trade packet: 50¢; Oz. \$2.00.

MAJUS NANUM.

- Blend of Varieties.** ANTR-4X. 25¢
Large flowered, semi-dwarf. 1/2 Oz. \$1.30.
- MAJESTIC:** This is probably the best type for growing out doors.
- Choice Mixed.** ANTR-5X. 25¢
1/2 Oz. \$1.00.

MAXIMUM: Tall giant flowered spikes; extra good for cut flowers; rust resistant

- Campfire.** ANTR-2C 25¢
Bright scarlet.
- Cattleya.** ANTR-2T. 25¢
Soft silvery rose-lilac with a golden yellow tip.
- Copper King.** ANTR-2K. 25¢
A nice copper color; long spurs.
- Gotelind.** ANTR-2G. 25¢
Bright orange.
- Indian Summer.** ANTR-2S. 25¢
Coppery scarlet turning to pure copper.
- Yellow Giant.** ANTR-2Y. 25¢
Giant rich yellow flowers.
- FAIRY SPELL.** ANTR-2FS. 30¢
NEW art shades, marbled and blotched with dark lip.
- Blend of Above Varieties.** ANTR-2X. 25¢
Any of above: 1/4 Oz. 60¢; Oz. \$2.00.

CARROUSEL.

ANTR-9CR. 35¢

Grown from F1 plants, this new blend offers a wide color range and exceptional hybrid vigor for superior garden performance. Plants are early, fast growing, uniform in height, 30 inches and fls spaced on long stems. 1/8 Oz. \$1.00.

FORCING VARIETIES:

For GH growing, seed should be sown Oct. 1-10, to bloom about 1st of April when grown single stemmed; bench about Nov. 1st; a pinched crop is 2 weeks later; seed can be sown, also, to Nov. 1st for later crop; plants on ground beds are 2 weeks later than on benches. Our new strains are far superior to the old strains.

We offer a superior strain of Snaps best for forcing under glass; these are the famous Ohlsen Danish strain.

- Anna Marie.** ANTR-7AM. \$2.00
Original strain; pure rose.
- Barbara.** ANTR-7B. \$2.00
Original strain; bronze.
- Better Times.** ANTR-7BT. \$2.00
Original strain; light cherry-red.
- Christina.** ANTR-7C. \$2.00
Original strain in light rose.

- Christmas Cheer.** ANTR-7CC. \$3.00
Cherry-rose; original strain.
- Golden Spike.** ANTR-7GS. \$1.50
Original F1; yellow.
- Lavender Queen.** ANTR-7LQ. \$2.00
Clear alvender-blue.
- Maryland Pink.** ANTR-7MP. \$2.50
Original; rose.
- Oskar.** ANTR-7K. \$2.00
Light orange.
- Pink Ice.** ANTR-7PC. \$2.00
Pure rose; original strain, F1.
- Red King.** ANTR-7RK. \$2.00
Shining blood-red; F1.
- Red No. 161.** ANTR-7RN. \$2.00
Dark red with yellow lips.
- Tetra.** ANTR-7T. \$2.00
A new yellow.
- Mixed.** ANTR-7X. \$2.00
A mixture of the above varieties.

ANTIRRHINUM SPECIES:

- Asarina.** ANTR-10. 40¢
Ivy-shaped lvs; fine plant on sunny dry wall, flowering best in poor limey soil; June-Sept; seed can be sown from March to August.
- Magic Carpet Mixed.** ANTR-11X. 25¢
Very dwarf rockery strain, in good color range. 1/4 Oz. 80¢.

APHANOSTEPHUS.

Compositae. Annual and biennial; solitary flower heads with white, violet or purple flowers or golden disks; easy; fine cut fl; blooms profusely; start indoors in March at 60° F; germ. 14 days; or sow direct to garden in April.

- skirrobasis.** APHA-1. 25¢
LAZY DAISY; Pink and white with gold. Very rare rockery species; short spurs; en centers; 18"; cuts well; HA.

APTENIA.

(ap-TEEN-ee-ah)

Aizoonaceae. Monotypic South African genus. (Mesembryanthemum). Grown in conservatories or window gardens.

- cordifolia.** APTE-1. 30¢
Purple fls, 1/2" ac; 2 ft; TP.

AQUILEGIA. COLUMBINE

(ak-wi-LEE-ge-ah) Ranunculaceae. One of the most valuable of hardy perennials. Its foliage is attractive and the pretty spurred flowers cannot be equalled for color. They bloom early in the summer; sow seeds any time so long as they can be shaded from the hot sun and are established early in the fall; seed is sometimes slow to germinate and early planting is best; they do best in a part shaded place best. Sow in Oct. for best results or freeze for 2 weeks and then bring inside or they can be planted in Jan. or Feb., outside. C-23 or 24; LC.

LONG SPURRED VARIETIES:

These are all hybrid types, with long spurs and in almost every color; some of the strains come in exquisite blends.

- Blue Shades.** AQUI-1B. 25¢
Best strain in blue shades; 3 ft. Oz. \$2.00.
- Dobbie's Hybrids.** AQUI-1D. 25¢
A nice English strain; 2 1/2 ft. Oz. \$2.00.
- Helenae.** AQUI-1H. 25¢
A mammoth flower, bright blue and white; short spurs. 1/4 Oz. \$1.50.
- Crimson Star.** AQUI-1C. 30¢
Brilliant crimson, white petals; long spurs. 1/2 Oz. \$2.00.



PRETTY AQUILEGIA LONGISSIMA

LOWDHAM STRAIN. AQUI-IL. 35¢

Unsurpassed European strain in fine colors; 3 ft. ½ Oz. \$2.50.

—McKana Strain. AQUI-1K. 25¢

Giant hybrid; long spurred fls, beautiful range of colors; 2 ft. ½ Oz. \$3.00.

—Mrs. M. Nichol's Strain. AQUI-1N. 25¢

A choice strain dominated by blue; 2½ ft. ½ Oz. \$3.00.

—Mrs. Scott Elliot Strain. AQUI-1S. 25¢

This has a beautiful blend of delicate colors; 3 ft. ½ Oz. \$2.75.

—Munstead White. AQUI-1T. 40¢

A beautiful white variety. Oz. \$2.00.

—Pearson's Sky Blue. AQUI-1PB. 35¢

An exquisite variety; beautiful giant sky-blue fls with white corolla. ½ Oz. \$3.75.

—Red and Orange shades. AQUI-1RG. 35¢

Rich coloring; Danish grown Strain.

—Rose Queen. AQUI-1Z. 25¢

Large flowered pink with white corolla.

½ Oz. \$1.80.**—White Queen. AQUI-1W. 30¢**

(candidissima) ½ Oz. \$1.50.

—Saier's Long Spur Blend. AQUI-1X. 25¢

This strain contains the very best blend of the various long spurred strains; 3 ft.

Oz. \$2.00.

AQUILEGIA SPECIES:**—akitsensis. AQUI-1. 50¢****—Bertolonii. AQUI-7. 75¢**

(Reuteri) 1 ft; alpine; fls 1" ac, blue violet, short spurs.

—caerulea. AQUI-10. 30¢

Colorado Columbine. Blue-purple fls; 3 ft; May-June; HP. ½ Oz. \$2.50.

—canadensis. AQUI-11. 25¢

Yellowish or red sepals, red spurs; May-June; 2½ ft; pH 6; not too rich soil; HP. PLANTS: 50¢ each; 3 for \$1.30.

—chrysantha. AQUI-12. 25¢

Yellow; long spurs; May-Aug; 3 ft; HP.

—Golden Queen. AQUI-12G. 25¢

Long spurs. ½ Oz. \$1.40.

—Jaeshkanii. AQUI-12J. 30¢

Yellow fls with red spurs. ½ Oz. \$1.40.

—Silver Queen. AQUI-12S. 30¢

Long spurred white variety. ¼ Oz. \$1.25.

—Mixed. AQUI-12X. 25¢**—clematiflora. AQUI-14. 25¢**

Pale pink and blue spurless fls; 18"; HP.

1/8 Oz. \$1.00.**—Einseleana. AQUI-19. 35¢**

Bluish violet, 1½" ac; short spurs; lime;

15"; Austria.

—flabellata. AQUI-22. 25¢

Pretty dwarf species; pure white; 1 ft.

—nana alba. AQUI-22A. 35¢

A dwarf white variety of above.

—glandulosa. AQUI-24. 30¢

True alpine; powder blue and white;

RG; 8 inches; HP. 1/16 Oz. \$3.00.

—Hersel Harebell. AQUI-26. 25¢

A vivid deep violet-blue; 18"; HP.

—longissima. AQUI-32. 25¢

Lovely pale yellow; very long spurs; 3

ft; HP. ¼ Oz. \$3.00.

—Reuteri: see A. Bertolonii.**—scopolorum. AQUI-40. 60¢**

Pale blue, spurs 2"; 8"; Utah.

—calcareum. AQUI-40C. 60¢**—Skinneri. AQUI-42. 30¢**

Crimson with greenish yellow sepals;

spurs pale red; (Mexican C.) ¼ Oz. \$1.50.

—To-kington's Double. AQUI-46. 25¢

Large wine-rose fls; 1 ft; HP. Oz. \$1.50.

—vulgaris. AQUI-48. 25¢

(A. transsilvanica); fls 2" ac, nodding

blue and white; 18"; HP. ½ Oz. 80¢.

—erecta. AQUI-48E. 25¢

Edelwiss. Very dwarf, compact snow

white; single; mixed ½ Oz. 80¢.

—Double Mixed. AQUI-48X. 30¢

These come in several colors and are

very pretty.

—Species Blend. AQUI-SX. 25¢

Only the species; no long-spurred types.

Oz. \$2.00.

ARABIS. ROCK CRESS

(A R-ah-bis) Cruciferae. Annuals, bi-

ennials and perennials with several fine

rockery species; all are easily grown from

seed; mostly low plants; flowers in terminal

spikes or racemes, blooming in early

spring. Sow seed any time as for most

perennials but early sown seed best.

—alpina grandiflora. ARAB-2G. 25¢

Large white strain; 9"; HP. ½ Oz. 60¢

—nana compacta. ARAB-2C. 25¢

Very dwarf and free flowering white;

HP. ½ Oz. 45¢.

—praecox. ARAB-2P. 30¢

A giant flowered white. Oz. 70¢.

—rosea. ARAB-2Z. 25¢

Very pretty bright rose; silver-gray foli-

age; 6"; HP. ½ Oz. \$2.50.

—Snow Cap. ARAB-2S. 25¢

A very showy white flowered plant; 1 ft;

HP Oz. \$2.00.

—blepharophylla. ARAB-8. 50¢

Spring Charm. Nice bushy plant with in-

tense carmine fls; best started by seed sown

in July; HP. ¼ Oz. \$2.50.

—Spring Charm. ARAB-4S. 30¢

A nice bushy little plant with intense

carmine fls. ¼ Oz. \$2.50.

—caucasia. ARAB-13. 50¢

(A. albidia) To 1 ft; fragrant; white; HP.

(Seed was short this year—expect more.)

—pumila, Snow Cap. ARAB-35S. 25¢

Profuse; white; trailer; 6"; HP. Oz. \$2.00.

—Schneehaube. ARAB-39. 25¢

A pretty white; very early; HP.

—Arabis Mixed. ARAB-X. 25¢

All kinds mixed; HP.

ARALIA.

(ar-RAY-lee-uh) Araliaceae. About 20

species of deciduous trees, shrubs and

plants mainly used for ornament and wild

life food; the seed has a dormant embryo

and fall sowing is probably best with 2

yrs. allowed for complete germination; C-36.

—chinensis. ARAL-7. 30¢

Fls in panicles to 2 ft long; 2½ ft; China.

Oz. \$1.00.

- elegantissima*; see *Dizygotheca* e.
 —*elata*. **ARAL-9. 35¢**
 Japanese Angelica. Grows to 50 ft; Manchuria. Oz. \$1.25.
 —*Moseri*; see *Fatsia japonica*.
 —*nudicaulis*. **ARAL-10. 40¢**
 Wild Sarsaparilla. 1 ft; HP.
 —*racemosa*. **ARAL-12. 40¢**
 American Spikenard. Large aromatic roots; greenish white fls in clusters all summer; fr. berry-like, dark purplish, red or black; deciduous; 1-3 ft HP. **PLANTS: 60¢ each; 3 for \$1.50.**
 —*Sieboldii*; see *Falsia japonica* v *Sieboldii*.
 —*spinosa*. **ARAL-14. 25¢**
 Devil's Walking Stick. Hercules Club. Angelica Tree. Hardy up in Penn; (V); gdoe wild life food and shelter. Oz. \$1.25.

ARAUCARIA

Araucariaceae. Good pot plant in the N; can be grown out doors in (X) zone; germ. in dark. (ar-raw-KAY-ree-uh)

- araucana*. **ARAU-3. 50¢**
 (A. imbricata) Monkey-Puzzle. Evergreen tr; Chile.
 —*angustifolia*. **ARAU-1. 50¢**
 (brasiliiana) Brazil; seeds are large. New crop in Aug; 85 seeds to lb. 100 seeds, \$6.00.
 —*Cunninghamii*. **ARAU-9. \$1.00**
 Hoop-Pine. Grown in its juvenile form as a pot plant. Oz. \$6.00.
 —*columnaris*. **ARAU-8. 50¢**
 New Caledonian Pine. Used in U. S. in its juvenile state for pot plants; deep green lvs; fresh seeds; order ahead of needs; ask for prices in quantity.
 —*excelsa*. **ARAU-11. \$1.00**
 Norfolk Island Pine. A pretty evergreen from S. Pacific and grown in pots in GH; seed ready during June-July and should be fresh; delivery very irregular and orders should be booked in advance; about 140 seeds to lb.

ARBUTUS.

(AHR-beu-tis) Ericaceae. Grown out doors in warm sections or under glass in the N; well drained soil; evergreen tr or shrubs with attractive fls; seed of species can be sown in sandy peat during Feb; pot small seedlings as soon as possible.

- Menziesii*. **ARBU-10. 40¢**
 Madrona. Tr to 75 ft; white fls in erect panicles, 6" long; (IX).
 —*Unedo*. **ARBU-4. 30¢**
STRAWBERRY TREE; drooping clusters of white or pink fls; 30 ft. c.s. Oz. \$2.00;

ARCTIUM.

Burdock. Compositae. Listed here are edible and medicinal sorts.

- Lappa* v. *Tokiwa*. **ARCM-3. 35¢**
 Edible roots; sow seeds in May and treat as HA; roots used when 2 ft long; or try sowing in Fall for Spring plants. Oz. 90¢.

ARCHONTOPHOENIX.

(ark-on-toh-FEE-nix) King Palm. Palmaceae. Hardy in the (X).

- Cunninghamiana*. **ARCH-3. 50¢**
 (Seaforthia elegans) (Ptychosperma or Loroma) Piccareen Palm. 35 seeds to oz. 100 seeds, \$2.00.

It helps if a few second choice items are included with your order, especially if it contains uncommon or rare sorts.

ARCTOSTAPHYLOS. Bearberry

(ark-toh-STAF-ee-los) Ericaceae. Evergreen shrubs and small trees mostly native of California; not hardy in the N; useful for wild shelter and food and as a honey plant; seed is slow in germination due to the hard seed coat plus a dormant embryo; some species can be treated by sulfuric acid others by stratification in moist sand at 70-80 degrees; sow seed in the fall and leave 2-3 years; mulch beds.

- bicolor*. **ARCO-2. 25¢**
 To 6 ft; rose fls; Calif.
 —*uva-ursi*. **ARCO-27. 30¢**
 BEAR-BERRY; prostrate sh; good wild-life food; very hardy; (II); stratify 60 days at 75 degrees followed by 60 days at 40. c.s. Oz. \$1.50; lb. \$8.00.

ARCTOTIS.

(ahrk-TOH-tis) Compositae. South African annuals with attractive daisy-like flower heads; valuable for cut-flowers; easily grown in fair soil and full sun; start seed indoors for real early bloom or they may be planted in the open in May. Flowers can be cut in the bud and they will open quickly if placed in the sun; they will not stand hard frost; germ 8 days at 65-70 Fah.

- acaulis*. **ARCT-1. 25¢**
 Stemless; yellow, rays purplish beneath; 9"; HHA; space 15 inches.
 —*grandis*; see *stoechadifolia*.
 —*Harlequin*. **ARCT-2H. 35¢**
 Blend of white, yellow and orange shades very large flowers.
 —*stoechadifolia*. **ARCT-8. 20¢**
 African Daisy. Pure white, with blue disk; 12"; HHA. ½ Oz. 90¢.
 —*Large Flowered Hybrids*. **ARCT-8H. 20¢**
 Yellow, orange, bronze, red. ¼ Oz. \$2.00.
 —*Arctotis* Blend. **ARCT-X. 20¢**

ARCTOUS.

(AHRK-toh-us) (Ericaceae) Digid. low shs for cool shady places; ground cover; fls in terminal clusters.

- rubra*. **ARCU-4. 35¢**
 Black Bearberry. Lvs brighter green and larger frs than A. alpinus. Oz. 80¢.

ARDISIA.

(ahr-DIZ-ee-ah) Myrsinaceae. A large genus of tropical ornamental evergreens suitable for the greenhouse. They make nice pot plants; seeds germinate readily.

- crispa*. **ARDI-1. 35¢**
 White fls; grown as a pot plant for its coral-red brs; (crinata); 200 seeds to oz; TSH; fol. best in moist atmosphere; do not over pot; Japanese Coral or Berry Plant. Oz. 75¢; lb. \$5.00.
 —*horitum*. **ARDI-1H. 50¢**
 Dwarf perpetual berry plant. 50 br. \$2.00.
 —*japonica*. **ARDI-2. 50¢**
 White flowers; red berries; 1½ ft; China. Oz. 2.00.

ARGANIA.

Sapotaceae. One evergreen tree; Morocco. —*Sideroxylon*. **ARGA-5. 75¢**
 Greenish yellow fls; for far South.

ARECASTRUM.

Palmaceae. Palms.
 —*Romanzoffianum australe*. **ARES-1A. 75¢**
 Queen Palm. \$6.50, 1,000 seeds.

We are always interested in the source of any seeds not listed — in many that are.

ARENARIA.

(ay-e-NAY-re-ah) Caryophyllaceae. Low growing annuals and perennials usually forming low mats; excellent in the rockery; they are also excellent in carpet bedding; best in sandy soil; sow seed direct to garden during Apr or May germ 3 wks; the perennials can be started in Aug also.

—**balearica.**

Corsican S. Creeper; 3"; solitary white fls; (V).

—**caroliniana.**

Clumps with 6" awl-shaped stems, covered with $\frac{1}{2}$ " white stars; RG; acid soil; sow seeds in early spring.

—**montana.**

A charming species; pure white fls; free blooming; trailer; sow seed in April best; HP. $\frac{1}{4}$ Oz \$2.50.

—**Arenaria Blend.**

Mixture of species.

ARECA.

Palmaceae. Graceful feather Palms most of which can be planted in frost-free U. S.

—**lutescens:** see **Chrysalidocarpus lutescens.**—**bambusa.**

From Brazil.

ARGEMONE.

(ahr-je-MOH-ne) Papaveraceae. Prickly Poppy. Grown as annuals in the flower garden, thriving in any good soil in a sunny place. Large poppy-like fls; 2-4 ft. tall; the plants make fine annual hedges; blooms in Apr; best started indoors during Mar; germ. 14 days at 65-70 F; best in pots till set out.

—**alba.**

Large white fls; fol marbled white; 3 ft; grow as a HA; HP in (VII); space 1 ft. $\frac{1}{4}$ Oz. \$1.00.

—**hybrida Mixed.**

A French strain of fine hybrids.

—**mexicana.**

Wild Yellow Poppy. Yellow or orange fls, 2" ac; 3 ft; Trop. Amer. $\frac{1}{4}$ Oz. 90¢

—**platyceras.**

Very pretty HHA that must be given a southern exposure, full sun and a rather dry spot; best sown in fall; not too much water; fls white; 4-5 ft; Texas.

—**rosea.**

Blooms for months; bluish rose-crimson flowers; 3 ft; HHA.

—**hispidia.**

White fls and prickly; thistle-like fol; June-Sept; 2 ft; HA; space 1 ft.

—**Argemone Blend.**

A mixture of all kinds.

ARGYREIA.

(ar-jih-REE-uh) Convolvulus. Twining sh or perennial and grown in GH or outside in far South.

—**splendens.**

Silver Morning Glory. Tall cl; rose fls, $\frac{1}{2}$ " long; India.

ARGYRODERMA.

Dwarf compact, highly succulent plants, forming annually thick silver lvs; grows in summer easy; requires much sunlight to flower in autumn.

—**brevipes.**

ARGY-5. 50¢

—**patens.**

ARGY-15. 50¢

—**festiculare.**

Yellow, red or white fls; good.

ARIOCARPUS.

Cactaceae. Spineless and making a small nearly globular shaped plant.

SANDWORT

(ay-e-NAY-re-ah) Caryophyllaceae. Low growing annuals and perennials usually forming low mats; excellent in the rockery; they are also excellent in carpet bedding; best in sandy soil; sow seed direct to garden during Apr or May germ 3 wks; the perennials can be started in Aug also.

—**balearica.**

Corsican S. Creeper; 3"; solitary white fls; (V).

—**caroliniana.**

Clumps with 6" awl-shaped stems, covered with $\frac{1}{2}$ " white stars; RG; acid soil; sow seeds in early spring.

—**montana.**

A charming species; pure white fls; free blooming; trailer; sow seed in April best; HP. $\frac{1}{4}$ Oz \$2.50.

—**Arenaria Blend.**

Mixture of species.

ARECA.

Palmaceae. Graceful feather Palms most of which can be planted in frost-free U. S.

—**lutescens:** see **Chrysalidocarpus lutescens.**—**bambusa.**

From Brazil.

ARGEMONE.

(ahr-je-MOH-ne) Papaveraceae. Prickly Poppy. Grown as annuals in the flower garden, thriving in any good soil in a sunny place. Large poppy-like fls; 2-4 ft. tall; the plants make fine annual hedges; blooms in Apr; best started indoors during Mar; germ. 14 days at 65-70 F; best in pots till set out.

—**alba.**

Large white fls; fol marbled white; 3 ft; grow as a HA; HP in (VII); space 1 ft. $\frac{1}{4}$ Oz. \$1.00.

—**hybrida Mixed.**

A French strain of fine hybrids.

—**mexicana.**

Wild Yellow Poppy. Yellow or orange fls, 2" ac; 3 ft; Trop. Amer. $\frac{1}{4}$ Oz. 90¢

—**platyceras.**

Very pretty HHA that must be given a southern exposure, full sun and a rather dry spot; best sown in fall; not too much water; fls white; 4-5 ft; Texas.

—**rosea.**

Blooms for months; bluish rose-crimson flowers; 3 ft; HHA.

—**hispidia.**

White fls and prickly; thistle-like fol; June-Sept; 2 ft; HA; space 1 ft.

—**Argemone Blend.**

A mixture of all kinds.

ARGYREIA.

(ar-jih-REE-uh) Convolvulus. Twining sh or perennial and grown in GH or outside in far South.

—**splendens.**

Silver Morning Glory. Tall cl; rose fls, $\frac{1}{2}$ " long; India.

ARGYRODERMA.

Dwarf compact, highly succulent plants, forming annually thick silver lvs; grows in summer easy; requires much sunlight to flower in autumn.

—**brevipes.**

ARGY-5. 50¢

—**patens.**

ARGY-15. 50¢

—**festiculare.**

Yellow, red or white fls; good.

ARIOCARPUS.

Cactaceae. Spineless and making a small nearly globular shaped plant.

—**trigonus.**

Pale yellow fls; similar to retusus in shape; Mexico.

ARISAEMA.

(ar-RISS-em-ah) Araceae. Mostly tuberous rooted plants suitable for moist shady places; not hardy in N but make good pot plants.

—**amurensis.**

(am-moor-REN-siss) 100 seeds \$3.00; 500, \$11.00.

—**Himalayan Alpine species.** ARIS-6A. 50¢
Snake Lily Finest blend of alpine species from the Himalaya.

—**Jacquinontii.**

Green spathes stripped white.

—**Pradhamii.**

Enormous spathes beautifully netted with white on black ground.

—**triphyllum.**

Jack-in-the-Pulpit, Indian Turnip. 3 ft; HP; (IV). PLANTS: 45¢; 3 for \$1.25.

—**Mixed.**

Snake Lily. Fine Himalayan species.

ARISTEA.

(ah-RIS-te-ah) Iridaceae. South African plants, tender in the North but grown in the open in the far South. Leaves are in large basal rosettes; flowers blue and in spikes. In the North they are grown in the greenhouse.

—**Ecklonii.**

Bright blue fls; 2-3 inches ac; 1 ft; TP. Good for damp places.

ARISTOLOCHIA.

(ar-is-toh-L O H-ki-ah) Aristolochiaceae. Dutchpipe Vine. Mostly perennial climbers with odd-shaped flowers and heart-shaped leaves. Some are grown in the greenhouse; easily grown from seed.

—**elegans.**

Purple-brown flowers with white markings; GH cl; HP; (IV); Calico Flower. Oz. \$4.00.

—**fimbriatus.**

Not much of a climber; fls 1" ac, greenish brown outside, purplish brown inside; Argentina.

—**ringens.**

ARST-16. 50¢

—**ornithocephala.**

ARST-17. 50¢

—**racemosa.**

ARST-18. 35¢

—**tomentosa.**

ARST-19. 25¢

Climber to 30 ft; native of N. C. to Fla;

HCl. Lb. \$4.00.

ARISTOTELIA.

(ah-rist-oh-TEEL-ee-uh) Elaeocarpaceae. Evergreen trs and shs of S. Hemisphere; (X).

—**racemosa.**

ARIA-9. 50¢

Wineberry. Quick growing N. Z. tree with large panicles of very attractive fls; pale rose to deep claret, followed by clusters of red to black berries; 15 ft; (V).

ARMERIA

(ahr-MEER-ee-ah) Plumbaginaceae. Sea-Pink; Thrift; Statice. Dwarf perennials plants; best in a sunny position and well drained soil. The genus has been reclassified of late; germination 2 weeks.

—**Bee's Ruby.**

Best cutting var; lasts well in water as well as for drying; space 12" in row.

—**caespitosa.**

ARME-7. 50¢

Tufted; 2" high; shining dark green lvs; pink fls; RG.

—**corsica.**

ARME-5. 40¢

(A. leucocephala v. procera) Pale rose

flowers; 1 ft; HP.

—**formosa** hybrids.

Large flowers in many colors; 18"; HP. **ARME-6H. 25¢**

1/2 Oz. \$2.00.

—**leucocephala v. procera.** **ARME-12. 50¢**

Pale rose-pink, erect heads; 12"; Corsica.

—**maritima.** **ARME-14. 25¢**

White to deep rose; 1 ft; HP. **Oz. \$3.00.**

—**alpina.** **ARME-14A 30¢**

Heads 1" ac; scapes glabrous, 8" tall.

—**Laucheama.** **ARME-14L. 25¢**

Rose and pink heads; 1 ft; HHP.

—**Six Hills Hybrids.** **ARME-22H. 30¢**

A very pretty English strain.

—**Armeria Blend.** **ARME-X. 20¢**

ARNICA

(AR-ni-ka). Compositae. Perennial plants with clustered basal leaves and bright yellow flowers, on long spikes. They are effective in colonies in the wild garden, growing rapidly in an acid soil; C-24. Fls used externally in healing wounds.

—**alpina.** **ARNI-1. 50¢**

Solitary heads, 2" ac; white fls; 15"; HP.

—**cordifolia.** **ARNI-6. 25¢**

The flower heads in rays; 15"; HP.

—**montana.** **ARNI-11. 25¢**

Mountain Tobacco. Large heads of yellow ray fls; 2 ft; HP; C-24; LC. **Oz. \$2.00.**

ARONIA

—**arbutifolium.**

ARON-1. 50¢

ARTEMISIA

(ahr-tee-MIS-ee-ah)

Wormwood. Compositae. Hardy aromatic plants some of which may be found listed in the Herb List. The flowers are in heads and composed entirely of tubular disk flowers; grown mainly for their aromatic and medicinal properties; thrives in poor soil. Flowers in late summer and makes plants in the back border. Sow in March at 60 Far.; germ. 2-3 wks; sow biennials during July-Aug and grow on in reserve bed or sow early in Spring.

—**Absinthium.** **ARTE-2. 30¢**

The common Wormwood; sub-shrub; 6 ft; HP. **Oz. 75¢.**

—**caucasia.** **ARTE-15. 40¢**

—**Dracunculus.** **ARTE-17. 35¢**

Tarragon. HP to 2 ft; leaves used in seasoning.

—**sacrorum v. viridis.** **ARTE-40V. 50¢**

Summer Fir. Erect; yellowish flowers; 3-5 ft; HHA; C-9; space 2 ft.

—**vulgaris.** **ARTE-50. 50¢**

Mugwort. Aromatic sh with medicinal properties; 3 1/2 ft; HP.

—**Artemisia Blend.** **ARTE-X. 30¢**

ARTHROPODIUM

(ahr-throh-POH-di-um) Liliaceae. Tufted perennials of the Lily Family and grown in the GH; lvs grass-like; fls in clusters.

—**cirrhaliun.** **ARTH-2. 35¢**

A handsome plant; fls in panicles, much like Gypsophila, with hundreds of small white fls on 36 in. stems; cuts well; any soil and light shade; May-June; HHA.

ARTICHOKE, Jerusalem; see Helianthus 50.

ARTOCARPUS

Moaceae. Trees from tropical regions; grown in S for its fruit; interesting.

—**altilis.** **ARTO-1. \$1.00**

Breadfruit. (A. communis, A. incisa) Tr to 60 ft; properly Breadnuts; fr. 8" ac; tropical; 60 seeds to lb; fresh in Aug. **100 seeds \$2.50.**

—**heterophyllus.**

ARTO-7. 40¢

(A. interfolia) Jack-fruit. Tr. to 60 ft; fr. 2 ft long; seed available June-Sept only on order. **100 seeds \$4.50.**

—**integra.**

ARTO-8. \$1.00

Bread-fruit. Suitable for large GH or conservatory; seed available June-Aug; 10 seeds for \$1.00.

—**fraxinifolia.**

ARTO-6. 40¢

ARUM

(AY-rum) Araceae. They require a rich soil, plenty of water and a shady place; some make nice pot plants for the greenhouse while others are hardy. If undisturbed, they will form better flowers; they are tuberous rooted plants.

—**italicum.**

ARUM-1. 30¢

Creamy white flowers in the spring; evergreen foliage in the South; 1 ft; HHP.

ARUNCUS

(ar-RUNK-us)

Goat's Beard. Rosaceae. Erect, hardy perennials with small fls in large plume-like panicles; hardy in N; thrives in moist, part shaded places.

—**sylvester.**

ARUN-10. 40¢

Goat's Beard. Stately plant with large compound lvs; small white fls in plume-like panicles; shade. **PLANTS: 65¢; 3 for \$1.50.**

ASARUM

(ASS-uh-um)

Wild Ginger. Aristolochiaceae. Planted in the wild garden or woods; rich moist soil.

—**canadense.**

PLANTS ONLY

Canada Wild Ginger. Lvs kidney-shaped 3-5" wide; shady spots with ferns; 10-20". **PLANTS: 40¢ each; 3 for 90¢.**

—**caudatum.**

ASAR-4 35¢

Brownish purple fls; June; lvs 6" ac; (IV)..

—**shuttleworthii.**

PLANTS ONLY

Mottled Wild Ginger. Thick fragrant ev. lvs mottled white; shade or part; rich soil: HP. **PLANTS: 50¢ each; 3 for \$1.25.**

ASCLEPIAS

(as-K-LE S-pe-as) Asclepiadaceae. Silkweed; Milk-weed. Attractive habit and showy flowers; they make nice plants in the border; are easily grown from seed best sown in the fall.

—**curassavica.**

ASCL-3. 25¢

Blood-flower. Reddish purple corolla; orange hoods 3 ft; TA. C-22. 1/2 Oz. **\$1.00.**

—**incarnata.**

ASCL-6. 40¢

Swamp Milkweed. Rosy purple fls; 4 ft.

—**laticifolia.**

ASCL-7. 30¢

From Texas.

—**syriaca.**

ASCL-14. 25¢

Green or purplish flowers; July-August; 5 ft; HP; (A. Cornutii); C-23. 1/4 Oz. **\$3.00.**

—**tuberosa.**

ASCL-15. 25¢

Orange flowers; July-August; 2-3 ft; HP. splendid cut fls; attracts many butterflies; C-23. 1/4 Oz. **\$1.50.**

ASCYRUM

(ass-EYE-rum)

Low shrubs; fls bright yellow, 4-parted; needs some protection in N; similar to Hypericum.

—**hypericoides.**

ASCY-2. 25¢

ASIMINA

(as-SIM-in-uh)

(ass-SIM-in-uh) Annonaceae. Found in rich moist soils from Mich. southwards; best known for its fruits, eaten by man and wild-life; seed sown in the fall do not germinate till spring or the seed can be stratified in moist sand at 40 degrees for 2 months and planted in the spring.

- triloba.** ASIM-4. 50¢
Paw-Paw. Decid. tr to 30 ft; purple fls;
2" ac; fleshy edible fruits; Mich-Fla; (IV);
30 seeds per oz; Oz. \$1.00.

ASPARAGUS

(ass-PAR-ah-gus) Lilaceae. The decorative species are easily grown but are tender plants in the North. Those listed are grown for their green foliage. New crop seed comes in during the spring and commercial growers wanting seed by the pound should order before the end of the year.

The seeds can be planted in pots. They germinate in 2-3 weeks but may be as long as 5-6 weeks; give some bottom heat.

New seed crop starts Feb.-March, with deliveries about May.

- asparagoides.** ASPG-4. 25¢
Smilax of the greenhouse; berries dark purple; DW; sow Feb. or Mar, 65 F; best in small pots.

- Cooperi.** ASPG-7G. 50¢
S. Af. vine to 60 ft; very dark green lvs; makes fern-like sprays; for cut-greens in the North.

- falcatus.** ASPG-12. 40¢
Tall climber to 10 ft; sickle-shaped lvs; 1,000 seeds \$5.00.

- officialis.** ASPG-15W. 25¢
Mary Washington. This is the most popular variety for the garden; fine quality roots. Oz. 60¢; lb. \$2.25.

- plumosus.** ASPG-16. 30¢
Tall climber for GH for cut greens; fine foliage; seed very irregular in germination; best medium is rough grained sand that does not pack; cover $\frac{1}{2}$ ". Oz. \$2.00.

- cupressoides.** ASPG-16C. 50¢
Growth like small Cypress.

- nanus.** ASPG-16N. 25¢
Dwarf for pot culture or bench. Oz. \$2.00; lb. \$15.00. (New crop during Feb)

- robusta.** ASPG-16R. 30¢
A stronger growing type. Oz. \$1.50; lb. \$12.00.

- pyramidalis.** ASPG-16P. 30¢
Loose upright growth in both sprays and single leaflets; pyramidal growth.

- racemosa.** ASPG-17. 30¢
Tall climber; handsome foliage; dense sprays of white flowers.

- pseudoscaberr v Spitzenschleier.**

- ASP-17P. 35¢
Lace Veil. Feathered foliage, for cutting; sow in late fall; C-23; DW. 100 seeds 90¢.

- scandens v. deflexus.** ASPG-18D. 35¢
Small form, deflated branched branches; white fls; 4 ft; TP; C-37. Oz. \$2.00.

- Sprengeri.** ASPG-20. 30¢
To 6 ft; courser foliage; fine for pots. Oz. \$2.00; lb. \$14.00.

- robustus.** ASPG-20R. 30¢
A strong growing type. 100 seeds \$4.00; 1,000 seeds \$12.00.

- verticillatus.** ASPR-23. 50¢
Climbing to 15 ft; Persia-Siberia; (III); good for cut greens. 100 seeds \$1.50.

- virgatus.** ASPG-24. 35¢
Foliage dark green; very easy.

ASPERULA

Rubiaceae. Woodruff. Grown in border or rockery; shade; moist soil; seed should be sown in the fall and exposed to snow and frost; broadcast seed direct in March or Apr; germ. 3 weeks.

- hexaphylla.** ASPR-7. 40¢
HP: to 2 ft; cut fls; fls white. $\frac{3}{4}$ Oz. 80¢.

- odorata.** ASPR-12. 25¢
Sweet W. White fls; 8"; lvs fragrant; best

to sow seeds in fall to germinate in the spring; whole plant frag. when dried; HP. Oz. \$1.20.

- orientalis.** ASPR-13. 25¢
Pretty blue fls; effective in carpeting; 1 ft.; HA. (Woodruff) (A. azurea setosa) Oz. 75¢.

- tinctoria.** ASPR-15. 30¢
Dyer's Woodruff. White or reddish fls; 2 ft; HP.

- verticillatus.** ASPR-24. 50¢
Climbing to 15 ft; Persia-Siberia; (III); useful for cutting.

ASPHODELINE.

(ass-pho-de-LIN-ee) Differs from Asphodelus only in the flower stems being leafless and the foliage clustered at base.

- lutea.** ASPD-4. 30¢
KING'S SPEARS. Fragrant yellow fls; racemes; part shade; 2-4 ft; TP.

ASPHODELUS.

(AS-pho-del-us) Liliaceae. Easy culture in the border or wild garden in rich sandy loam; fls lily-like; seed slow to germinate; LF.

- luteus.** see Asphodeline.
—**Species from the Pyrenees.** ASPH-3. 30¢
Oz. 90¢; lb. \$9.00.

ASPIDIUM: see *Cryptomium*, *Dryopteris*, *Polystichum*.

ASPLENIUM.

(ass-PLEEN-ee-um)

Spleenwort. Polypodiaceae. A large genus containing tender GH species to hardy ones; easy to grow; want stand too much sun.

- bulbiferum.** ASPL-6. 75¢
Mother S. Fronds 4 ft; 1 ft wide; N. Z.

- flaccidum.** ASPL-9. 75¢
N. Z.; stem $\frac{1}{2}$ " wide, thick and heavy.

- lucidum.** ASPL-18. 75¢
Leathery fronds 3 ft long; 1 ft wide; N. Z.

- Nidus. (Nidus-Avis)** ASPL-15. 50¢

- platyneuron.** ASPL-20. 50¢
Ebony Spleenwort. Narrow lvs; found on cliffs and rock soils; semi shade; 6-8 in.

- Plants: 50¢ each; 3, \$1.40. Prepaid.

- trichomanes.** ASPL-25. 50¢
Maidenhair Spleenwort. Small and delicate; found on rocks and cliffs; part shade.

- Plants: 50¢ each; 3, \$1.40. Prepaid.

ASTELIA.

Liaceae. Tufted perennials from N. Z.; and Australia.

ASTERS

Sow Aster seeds indoors 6 weeks before it is time to set out in their beds, which is after danger of frost has passed. Do not crowd, usually a foot apart, and use care that they do not suffer a set back thru over watering, crowding or drought. It is best to transplant seedlings once; as the roots of Asters are shallow, use care in cultivating. Make succession plantings for continuous bloom but when possible use different types which flower at different times. All strains offered are wilt-resistant unless otherwise noted; germination, 12-14 days.

Asters flower best during long-day periods (short nights); rather low intensities of light used either at start of day or at end, will induce flowering earlier; C-11.

You can sow Asters for the GH, Aug. 15th for fls late in Feb.; grow at 50 F. In this case you will have to give them light from germination till plants are 20-24 in.

high; space them about 8x8 inches.

AMERICAN BRANCHING:

Plants 2-2½ ft. tall, branching, robust, flowers double, semi-ball shaped, late August. These can be had in all Aster colors.



AMERICAN BRANCHING ASTER

- Helda. AST-1H. 20¢
Pure soft salmon-rose; makes a delicate display as a cut flower. Oz. \$1.25; lb. \$9.00.
- Sensation. AST-1S. 20¢
A fine scarlet color; excellent cut-flower. Oz. 75¢; lb. \$7.00.
- Leuchfeuer. AST-1L. 20¢
A fiery copper scarlet; excellent for cutting. Oz. 90¢; lb. \$9.00.
- Colors Separate. Oz. 90¢; lb. \$6.50.
- Blend. Oz. 80¢; lb. \$5.50 AST-1X. 20¢

CREGO:

- Plants robust, branching; 2-2½ ft. tall; flowers large, double; blooms mid-August; an all purpose type
- Enchantress. AST-2E. 20¢
Lovely salmon-rose; NEW. Oz. 90¢; lb. \$8.50.
- Colors Separate. White, lavender, rose-pink, shell-pink, deep rose, crimson. Oz. 90¢; lb. \$8.50.
- Crego Blend. AST-2X. 20¢
Scarlet; very showy for the type flower.

GIANTS OF CALIFORNIA:

The flowers are of the Crego-type, curled and twisted petals making a fine cut flower sort; stems stiff and non-branching; 3 ft; blooming in late summer.

- Azure-Blue. AST-4B. 25¢
A rich cut-flower shade. Oz. 90¢; lb. \$9.00.
- Crimson. AST-4C. 20¢
- Loveliness. AST-4L. 20¢
A rich pure pink, touched with salmon.
- Palm Springs. AST-4PS. 25¢
A new deep rose color.
- Peach Blossom. AST-4P. 20¢
Opens white, flushed lavender-pink. Oz. 90¢; lb. \$9.00.
- White. AST-4W. 20¢
Pure white. Oz. 90¢; lb. \$9.00.
- Giants of California Blend. AST-4X. 20¢
Oz. 85¢; lb. \$8.50.

GIANT OSTRICH FEATHER:

Plants 2-2½ ft. tall; branching; blooming in mid-August; flowers feathery, double

- and an all-purpose flower; wilt-resistant.
- Bright Rose. AST-6Z. 25¢
- Crimson. AST-6C. 20¢
- Malmaison Pink. AST-6P. 20¢
- Pure White. AST-6W. 20¢
- Blend. AST-6X. 20¢
- Any above: Oz. 80¢; lb. \$8.00.

QUEEN OF THE MARKET:

This a popular early flowering Aster branching, 20 inches tall, blooming in early August and a fine cut type.

- Ballet Queen. AST-8Q. 20¢
A fascinating salmon-rose.
- Crimson. AST-8C. 20¢
- Pure White. AST-8W. 20¢
- Salmon-rose. AST-8Z. 20¢
- Queen of the Market Blend. AST-8X. 20¢
- This is a blend of the colors for cut flower use and not a mixture of left-overs. Oz. 75¢; lb. \$6.50. (Any of the Above)

SUPER GIANTS OF CALIFORNIA:

This is the largest and most double Aster class yet developed; flowers 6-8 inches across, graceful, interlacing petals. Plant 2½ ft. high; 6-8 non-lateral stems per plant.

- El Monte. AST-10C. 25¢
A deep clear deep crimson.
- Los Angeles. AST-10L. 25¢
A beautiful shell pink making it a fine variety for cutting and make-up work.

POM POM or LILLIPUT:

Small flowered type; incurved petals; showy cut flower for small bouquets or edging.

- Forerunner. AST-11F. 20¢
A new carmine-rose variety. Oz. \$1.00; lb. \$10.00.
- Sunbeam. AST-11S. 25¢
A clear yellow variety; new. Oz. \$1.00; lb. \$10.00.
- White with Blue Center. AST-11WB. 20¢
- White with Red Center. AST-11WR. 20¢
- Crimson. AST-11C. 20¢
- Dark Blue. AST-11B. 20¢
- Blend. AST-11X. 20¢
Any of above. Oz. \$1.00; lb. \$10.00.

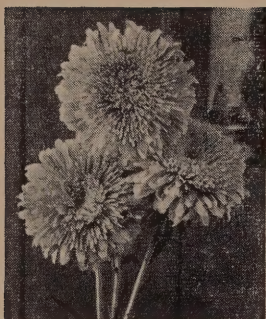
BOUQUET TYPE:

- Powderpuff Mixed. AST-7BP. 25¢
This is an attractive full color blend; the flowers are tightly quilled, similar to the Pompom type but much larger, reaching a size of 3"; plant is symmetrical, upright branching, growing 24" tall; recommended for both commercial and home gardeners; early blooming and floriferous. ½ Oz. \$3.00

PRINCESS:

Attractive new cutting type; 2-2½ ft. tall; branching, early; 3-3½ inch flowers on strong stems and with a deep crested center surrounded by several rows of dainty plume-like petals.

- Anne. AST-7A. 25¢
A pale rose; very pretty.
- Barbara. AST-7B. 20¢
New orchid color.
- Bonnie. AST-7N. 20¢
A soft salmon-rose; dainty and pretty.
- Elizabeth. AST-7E. 20¢
Pure white; a beautiful cut flower.
- Golden Sheaf. AST-7Y. 25¢
A new yellow.
- Linda. AST-7L. 20¢



THE NEW PRINCESS TYPE ASTERS

- Clear carmine-rose; new; very nice.
 —Margaret. AST-7M. 20¢
 NEW. Very pretty deep rose.
 —Marsha. AST-7H. 20¢
 —Pai. AST-7P. 20¢
 A new carmine; delicate plumes.
 —Susan. AST-7S. 20¢
 True deep blue in clear shade.
 Any of above: Oz. \$1.10; lb. \$11.00.
 —Princess Blend. AST-7X. 20¢

PERENNIAL SPECIES OF ASTERS:

Most of these species following do well if started in June-July; germ about 10 days; then set out in Sept.

NOTE: I would like to hear from anyone who is making a speciality of the Aster species, especially from seed; pH 5-6.

- alpinus. AST-14. 30¢
 Violet fls; 10"; HP; C-24. 1/4 Oz. 40¢.
 —Dark Beauty. AST-14DB. 30¢
 A beautiful violet.
 —Wolfii. AST-14W. 40¢
 Taller; blue fls; Alps.
 —Goliath. AST-14G. 30¢
 1/4 Oz. \$1.00.
 —Large Flowered Types. AST-14L. 30¢
 Large flowered types; 9 inch plants; HP.
 1/4 Oz. 85¢.
 —superbus. AST-14S. 30¢
 Larger flowers than the type; showy.
 —Amellus. AST-17. 40¢
 slower growing and more dwarf than Michaelmas Daisies; 18-30 inches; Aug-Oct.
 —Rudolf Goethe. AST-17G. 40¢
 Rich lavender.
 —Schone von Ronsdorf. AST-17R. 40¢
 Bright rosy lilac.
 —caucasicus. AST-20. 30¢
 Purple ray fls; heads 1 1/2 inches across; 2 ft; HP.
 —communis crassulus. AST-23. 30¢
 A small flowering white; Montana; August; 2 ft; HP.
 —divaricatus. AST-33. 35¢
 White Wood Aster. Fls in corymbs to 1' ac; ray-fl white; 2 1/2 ft.
 —dumosus "Victor". AST-36V. 40¢
 —Farreri. AST-40. 35¢
 Narrow violet ray flowers; vermilion-orange disks; 1 ft; HP. 1/32 Oz. \$1.50.
 —Frikartii. AST-50. 35¢
 2 ft; heads 3" ac, rays violet-blue; frag; HP.
 —himalaicus. AST-57. 35¢
 Heads 1 1/2 inches across; lilac-blue ray flowers; 18 inches tall; HP.
 —novae-angliae. AST-68. 40¢
 New England Aster. Violet-purple fls; showy; 3-4 ft. PLANTS: 3 for \$1.10.

- novae belgii, Mixed. AST-69X. 35¢
 October; 3 ft; HP.
 —Purdomii. AST-97. 50¢
 Brilliant violet with hump of flaming orange; 9"; China; HP.
 —pyrenaeus. AST-98. 40¢
 Flowers 2 1/2" across, rays lilac; 1 1/2 ft; HP.
 —sikkimensis. AST-108. 30¢
 —subcaeruleus. AST-110. 30¢
 Very large lilac-blue flowers; very good; 9 inches high; HP.
 —Star of the Wartburg. AST-110W. 30¢
 Bright lavender-blue; prominent yellow centers. 1/8 Oz. \$2.50.
 —tibeticus. AST-122. 40¢
 Bright blue, heads 2" ac; Tibet; 1 ft; HP.
 —yunnanense. v. Napsbury. AST-144N. 50¢
 Ray fls, violet-blue; 2 1/2 ft; HP.
 —Perennial Aster Blend. AST-PX. 25¢
 1/4 Oz. \$2.00.

ASTILBE

(ah-STIL-be) Saxifragaceae. The florist Spirea; easily forced in the greenhouse; sow seed in December using soil containing sand, peat and leaf mould. They thrive in moist soil and part shade; they germinate readily if seed is frozen 5-10 days than at 45-55 F under glass; try C-23. Resents disturbance.

- biternata. ASTI-3. 35¢
 False Goat's-beard. Decid. shade loving plants; yellowish white fls; 3-5 ft; HP.
 PLANTS: 50¢ each; 3 for \$1.10., postpaid.
 —chinensis. ASTI-4. 30¢
 A dwarf form; white flowers; 2 ft; HP.
 (Seed was short this year—expect more)
 —rivularis. ASTI-10. 30¢
 Yellowish white flowers in large panicles; 5 ft; HHP.
 (Seed was short this year—expect more)
 —vioreana. ASTI-20. 40¢
 —Mixed. ASTI-X. 25¢

ASTRAGALUS. (as-TRAG-ah-lus)

Leguminosae. Deeply cut leaves and purple, yellow or white fls in spikes or racemes; thrives in light sandy soils; RG or border; easily grown from seed sown direct in Sept or in Spring; resent moving.

- crassicaepus. ASTR-15. 40¢
 Buffalo Pea; raspberry clusters; 15"; HP; (II).
 —monspessulanus. ASTR-38. 50¢
 Trailing; 10"; carmine fls short racemes; HP.

ASTRANTIA.

(as-TRAN-shi-ah) Umbelliferae. Flowers are in odd and attractive umbels and they make interesting plants for the border, especially in moist places; seed of the varieties do not come 100% true; they resent transplanting; germination slow.

- bavarica. ASTN-3. 30¢

ASTROLOMA.

- humifusum. ASTB-7. 40¢
 Cranberry Heath. Mat-like plant growing from central root; narrow scarlet fls hidden by lvs; fr a large green or reddish berry, 1/2" diameter.

- major. ASTN-5. 35¢
 Pinkish, rose or white fls in umbels with showy bracts, tinged purple; fine stream-side flower; 3 ft; HP.

ASTROPHYTUM.

Star Cactus. Cactaceae. Small type Cactus with large flowers.

- capricorne v. aureum. ASTC-4A. 50¢
Plant 8" high; cylindrical.
—major. ASTC-4M. 50¢
—Minor. ASTC-4N. 50¢
—nudum. ASTC-4D. 50¢
—ornatum. ASTC-9. 50¢
Cylindrical; 1 ft; lemon-yellow fls, 3-4"
broad.
—glabresus. ASTC-9G. 50¢
—Mirbellii. ASTC-9M. 50¢

ATALAYA.

- hemiglauc. ATAL-3. 50¢
White fls in summer; (IX); good orna-
mental; 30 ft.

ATHYRIUM.

(ath-THEER-ee-um)

Polypodiaceae... Similiar to Asplenium
mostly tropical.

- Lady Fern. ASTHY-6. 50¢
—Lady Fern. One of the easiest ferns for
shady places in the border or wild garden.
2-3 ft; showy species; set roots just below
surface; very hardy. Plants: 60¢ each; 3
for \$1.50.

ATRIPLEX.

(AT-rip-plex) Chenopodiaceae. SALT
BUSH. Small plants and shrubs generally
grown on salty soils; can be started indoors
in March or in open during April.

- hortensis ATRI-4. 25¢
Orach. Sow seed in April; thin to 18"
apart; grow like Spinach; 6 ft; very orna-
mental; germ 9 d; HA.
—numularia. ATRI-8. 25¢
Old Man Salt Bush. Good hedge plant;
6-10 ft.

ATROPA.

(A-thro-pa) Solanaceae. BELLADONNA.
Mainly grown for its drug properties.

- Belladonna. ATRO-1. 50¢
Shining black berries; 3 ft; HP; poison-
ous; a drug herb.

AUBRIETIA

Mat forming perennials prized for their
abundant flowers in the spring; they are
favorites in the rockery and closely allied
to and resemble Arabis. Easily grown
from seed, starting them anytime, for
flowering the next spring; they are espe-
cially good between rocks and likes a little
shade; C-23.

SEMI-DOUBLE HYBRIDS. AUBR-20H. 35¢

A bright blend of giant flowered double
and semi-double hybrids in an exception-
ally wide color range, varying from soft rosy
lilac to deep purple-carmine. 1/8 Oz. \$2.00.

- Bougainvillei. AUBR-2B. 25¢
Dark blue. 1/4 Oz. \$1.40.
—deltoides. AUBR-2. 25¢
All the garden varieties belong to this
species; lilac. 1/4 Oz. \$1.20.
—Campbelli. AUBR-2C. 25¢
Ageratum-blue flowers. 1/4 Oz. \$3.00.
\$1.20.
—Eyrei. AUBR-2E. 25¢
A very beautiful violet-blue; HP. 1/4 Oz.
80¢.
—Fire King. AUBR-2FK. 40¢
A real good red variety from Switzerland.
—gracea. AUBR-2G. 25¢
Large and more bushy than type; HP.
1/4 Oz. \$1.20.

- Hybrids. AUBR-2HY. 25¢
Large flowered types; HP.
—Hendersonii. AUBR-2H. 25¢
Deep purple flowers. 1/4 Oz. \$1.50.
—Giant Hybrids. AUBR-2GH. 25¢
—Leichtlinii. AUBR-2L. 25¢
Carmine-rose. 1/4 Oz. \$1.60.
—Whitewall Gem. AUBR-2W. 25¢
Pretty violet fls; HP. 1/4 Oz. \$1.60.
1/4 Oz. \$1.50.
—viola. AUBR-2V. 25¢
Improved form, pure violet flowers.
—Mrs. Rodewald. AUBR-2R. 40¢
This want breed true but as it is the best
of all Aubrietias, it's off-spring should be
good.
—Aubrietia Blend. AUBR-2X. 25¢
Oz. \$3.00.

AUCUBA.

(aw-KEW-buh)

Cornaceae. Evergreen shs grown in cool
GH or outdoor in S; ornamental fol; part
shade; moist well drained soil.

- japonica. AUCU-8. 75¢
Dark green shining lvs 7" long; 15 ft.
70 seeds to ounce. Oz. \$1.25; lb. \$2.50.
—nana. AUCU-6N. 75¢
Dwarf green leaf; heavy fruiting. Oz.
\$1.25; lb. \$5.00.
—aureo-variegata. AUCU-6NA. 75¢
Dwarf with gold spotted lvs. Oz. \$1.25;
lb. \$5.00.
—variegata. AUCU-6V. 75¢
Oz. \$1.25; b. 1\$. \$3.50.

AUREOLARIA.

(aw-ree-ol-LAY-ree-uh)

Scrophulariaceae. N. Am. perennials.

- flava. AURE-2. 25¢
4 ft HP; yellowish orange fls, 2" long;
July-Aug; Wis-Miss; (IV).

AVENA.

Ornamental Oats

(ah-VEN-ah) Gramineae. Ornament-
al Oats; mostly annual grasses with loose
panicles; seed sown early in the spring or
in the fall in the South; ornamental.

- sterilis. AVEN-6. 25¢
Animated Oats. 3 ft; awns 2"; HA; good
cut or drying

AVERRHUA.

Oxalidaceae. Ev. gr. trees of tropical Asia;
for frost-free places; deep rich soil and moist
climate.

- Carambola. AVER-3. 50¢
To 30 ft; a fine tree with white fls and
golden brown fr. 5" long; edible.

AYLOSTERA.

Cactaceae. S. Amer. Cacti allied to Re-
utia.

- Fiebrigii. AYLO-4. 35¢
Bright yellowish red fls, 1 1/2" long; Boli-
via.

AZALEA.

Rhododendron. The Azaleas belong to
the Rhododendrons but we will list some
of the trade items here; culture as for
Rhododendrons.

AZUREOCEREUS.

- nobilis. AZUR-10. 40¢

BABIANA.

(bab-ee-AY-nuh) Iridaceae. South Afri-
can cormous plants to be grown indoors
in the N or outside in the S. Flowers in
terminal clustres or racemes.

- hypoena. BABI-4. 35¢

—*stricta* v. *sulphurea*. **BABI-13S. 40¢**
Pale yellow to white variety; 1 ft; S. Af.
(VIII).

BACCHARIS.

(bak-KAR-iss) Compositae. Shrubs with small white or yellowish heads in corymbs or panicles. They are showy.

—*halimifolia*. **BACC-7. 50¢**
Groundsel-bush. 12 ft; (IV); grows along the sea shore and marshes. **Oz. 60¢; lb. \$4.50.**

BAERIA.

(BEER-ee-uh) Small Calif. native annuals; 1 foot; with heads of small yellow daisy-like fls; blooms late spring or summer, easy; good for edging or for everlasting fls sown in open during Mar or April; germ. 3 wks.

—*aristata*. **BAER-1. 30¢**
Useful for edging or Everlasting fls; heads $\frac{1}{2}$ " ac; 12" high; profuse bloomer; very pretty.

—*chrysostoma*. **BAER-3. 30¢**
(B. *aristata*) 10"; heads $\frac{1}{2}$ in ac; HA.

BAILEYA.

(BAY-le-yah) Compositae. Native of deserts and dry regions; cuts; good for dried fls; sown in Apr direct or under glass at 60-65 Fah.

—*multiradiata*. **BAIL-3. 30¢**
(mull-tih-r-ray-DEE-ay-tiss) Fl-heads $1\frac{3}{4}$ " ac; brown-yellow fls; quick; showy; $1\frac{1}{2}$ ft; HA; Texas. $\frac{1}{4}$ Oz. 90¢.

BALLOON VINE: see *Cardiospermum*.

BALM, Lemon: see *Melissa officinalis*.

BALSAM Garden see *Impatiens balsamina*.

BALSAMORHIZA.

Balsam Root (bel-sam-or-RYE-zuh) Compositae. Balsam Root. Nice plants for the wild garden with Sunflower-like fls; sandy soil.

—*sagittata*. **BALS-5. 30¢**
Among the very showiest of Western fls; found on sand flats or mts where it makes great gray-leaved clumps with dozens of large Sunflower-like blooms on 18" stems; May; sun or light shade; dies down in late summer; III; HP.

BANANA: see *Musa*.

BANKSIA.

(BANKS-ee-ah) Proteaceae. Australian evergreen shrubs and trees; flowers in dense terminal spikes; grow in for South; easy from seed; does not transplant well, probably due to fact the roots are devoid of the fine root-hairs, depending on a soil fungi; add 25% rotted lvs or wood; do not sterilize soil; grow by old stump or rotted log.

—*integrifolia*. **BANK-8. 40¢**
Australian tr to 30 ft; spikes 6" long.

—*serrata*. **BANK-24. 50¢**
Large bottle-brush flowers, 8 inches; lovely silver leaves; tree to 20 ft; Australia.

BAPTISTA.

FALSE INDIGO (bap-TEZ-ee-ah) Leguminosae. Sturdy perennials, growing to 6 feet; foliage is a deep green and attractive in the border; the flowers resemble Lupins in form and come in all shades of blue, white and yellow. Late in the fall the seed pods turn dark and are thus rather showy. Seed can be planted where the plants are to grow; rich soil best; HP.

—*australis*. **BAPT-2. 20¢**
Deep blue fls; 3-4 ft; June-July; HP; (IV);

Oz. 60¢. **PLANTS:** Each 75¢; 3-\$1.75.

—*alba*. **BAPT-2A. 25¢**

—*Hybrids*. **BAPT-2H. 30¢**

Colors include cream, gold, blue violet, bronze, chocolate, etc. **Oz. \$1.50.**

—*Lavender*. **BAPT-2L. 25¢**

—*bracteata*. **BAPT-4. 35¢**

30"; white to cream colored fls; (IV).

—*tinctoria*. **BAPT-9. 30¢**

Yellow pea-blossoms in summer; sunny dry sandy soil best; HP. **PLANTS: 60¢ ea 3 for \$1.60.**

BARBAREA: see *Nasturtium officinalis*.

This is the true Water Cress.

BARLERIA.

(bar-LEER-ee-uh) Acanthaceae. Tropical plants grown in the greenhouse in the N. They have showy bracts.

—*lupulina*. **BARE-3. 40¢**
Thorny sh; long gray lvs with red midrib; yellow fls; GH.

BARTONIA aurea: see *Mentzelia Lindleyi*.

BASELLA.

Malabar-Nightshade. Basellaceae. Asian twining vines; pot-herb in South; start indoors in North; also good for Japanese type flower arrangements.

—*Purple*. **BASE-1P. 35¢**

—*White*. **BASE-1W. 35¢**

Leaves are longer than broad.

Leaves about as broad as long.

—*rubra*. **BASE-4. 25¢**

BASIL, Sweet: see *Ocimum basilicum*.

BAUHINIA

(boh-HIN-ee-ah) Leguminosae. Tropical plants grown out doors in the South. They make a fine showing with their colorful racemes of white, purple and yellow flowers; TP.

—*acuminata*. **BAUH-2. 30¢**

White flowers in racemes; 6 ft shrub; TSH; (X).

—*Galpinii*. **BAUH-6. 30¢**

Half climbing sh; 6 ft; terre cotta fls; TSH New crop about Dec. **Oz. \$3.00.**

—*integrifolia*. **BANK-8. 40¢**

Australian tr to 30 ft; spikes 6" long.

—*magalandra*. **BAUH-9. 30¢**

—*monandra*. **BAUH-10. 35¢**

Butterfly Flower, Jerusalem Date. Sh or small tr; pink fls in terminal racemes. **Oz. 90¢.**

—*Petersiana*. **BAUH-12. 30¢**

Mauve fls; tr to 15 ft; S. Af.

—*punctata*. **BAUH-11. 40¢**

Drooping scandent sh; profusion of scarlet or flame colored fls; vigorous.

—*purpurea*. **BAUH-13. 25¢**

Small Indian tree; orchid-like fls; bright rose; (X); 75 seeds to oz; **Oz. \$2.00.**

—*scandens*. **BAUH-14. 40¢**

Fresh seed comes in during July; soak seed in warm water for 4 hours. **Oz. \$2.00.**

—*tomentosa*. **BAUH-15. 40¢**

St. Thomas Tree. Sh to 15 ft yellow fls with a red blotch on petal; from E. Af; (X).

—*racemosa*. **BAUH-17. 35¢**

Bush-like tr, hanging branches; yellow fls in loose racemes; India; 75 sds to oz. **Oz. 95¢.**

—*variegata*. **BAUH-18. 30¢**

Mountain Ebony, Orchid Tree. One of the most beautiful Himalayan trees; large Azalia-like fls; (IX)..

—*alba*. **BAUH-18A. 40¢**

New crop seed February.

—*Mixed*. **BAUH-X. 25¢**

BEANS: Ornamental.

Only those that are grown for ornament are listed here.

Hyacinth Bean: see *Dolichos*.

—**Jack Bean.** **BEAN-1JB. 35¢**
White bush bean; pods very large, broad and thick; sliced young pods used for pickling in Japan.

—**Scarlet Runner.** **BEAN-1. 25¢**

Pretty climber with scarlet fls; 10 ft; TA; 15 seeds to oz. **Oz. 40¢; lb.\$1.00.**

—**Yard-long Bean.** **BEAN-2B. 35¢**

Yard-long Asparagus Bean. Pods 2-3 ft long; suitable for far South; excellent snap-bean; give support. **Oz. 50¢.**

BEAUFORTIA. (beau-FORTH-ee-ah)

Colorful plants for light soils; full sun; do not disturb the roots.

—**squarrosa.** **BEAF-7. 25¢**

BEAUMONTIA. (beau-MON-te-ah)

Apocynaceae. Vines native of East India with showy funnellform fls in terminal cymes; (X).

—**grandiflora.** **BEAM-1. 40¢**

Herald's Trumpet. White trumpet fls; 5" long and broad; fragrant; creeper; 160 seeds to oz; fresh seed about April. **Oz. \$1.00; lb. \$10.00.**

BEGONIA

(be-GON-ee-ah) Begoniaceae. This is a popular plant, especially for pot culture. The seed is rather small and should not be covered with soil; care must be used in germinating them and the casserole method is usually best for small lots. Begonias are divided into three classes: fibrous rooted, tuberous rooted and rhizomatous.

SEMPERFLORENS: Easy to grow, making excellent flowering pot-plants. Sow seed in May, which makes good plants by fall; 55 deg. F. is good germinating temperature. C-40.

FIBROUS ROOTED:

For GH growing, seed sown Aug. 15th will produce plants for 3" pots by Xmas or Jan at 60 Fah. nights; give shade till Fall; keep moist.

—**Albert Martin.** **BEG-2T. 50¢**
Carmine flowers.

—**Christmas Cheer.** **BEG-2C. 50¢**
A Christmas red; a fine variety.

—**Erfordia.** **BEG-2E. 50¢**
A dainty rosy carmine variety.

—**Glow.** **BEG-2G. 50¢**
Improved Fire Sea; brilliant scarlet and dark foliage.

—**Gustav Knaake.** **BEG-2K. 50¢**
A strong grower in a fiery crimson.

—**King of the Reds.** **BEG-2R. 50¢**
Dwarf, bright scarlet and bronze foliage.

—**Rose de Bois de Veaux.** **BEG-2V. 50¢**
A compact rose variety.

—**Snowcloth.** **BEG-2W. 50¢**
Pure white and green foliage.

—**Salmon Queen.** **BEG-2Q. 50¢**
Salmon-red and dark foliage; popular.

—**Vernon.** **BEG-2N 50¢**
A nice scarlet flower.

—**Wintermarchen.** **BEG-2M. 50¢**
Carmine-rose flowers and green foliage.

—**Blend of Varieties.** **BEG-2X. 50¢**

Trade packets holding 3 times the quantity of seed for \$1.00 each.

SEMPERFLORENS GRACILIS: Compact and dwarf plants, especially suited for pot culture in the greenhouse where a

dwarf plant is needed; they can be used in bedding; C-40.

—**Ball's Dark Rose.** **BEG-3BZ. 50¢**

—**Ball's Red.** **BEG-3BR. 50¢**

—**Carmen.** **BEG-3C. 50¢**
Bright rose and bronze foliage.

—**Indian Bride.** **BEG-3B. 50¢**

The first dark leaved, pure white Begonia; contrast between flower and leaves gives a special effect; dwarf and compact.

—**Indian Maid.** **BEG-3M. 50¢**

A nice bright scarlet with bronze foliage.

—**Luminosa.** **BEG-3L. 50¢**

Deep scarlet and bronze foliage.

—**compacta.** **BEG-3LC. 50¢**

An extra dwarf strain of the above.

—**Prima Donna.** **BEG-3D. 50¢**

Rose turning to carmine.

—**Radio.** **BEG-3R. 50¢**

A large flowered carmine-scarlet.

—**White Pearl.** **BEG-3W. 50¢**

—**Blend of Above.** **BEG-3X. 50¢**

Trade packets containing 3 time the regular packet for \$1.00 each.

TUBEROUS ROOTED:

Tuberous Begonias flower only when the nights are short but for production they do best at just the opposite—that is, short days and long nights.

Seed can be started in Feb. in a 60 deg. F. house. Seed is small; use sand and leaf mould, equal parts; press seed into soil carefully, cover with glass; C-39.

—**Single, Best Mixed.** **BEG-4SX.\$1.00**

Seed can be supplied in the following separate colors, European grown seed; new new crop harvested during December: Dark Blood Red; Bright Scarlet; Brilliant Rose; Deep Orange; Golden Yellow; Pure White; Copper-red and Salmon.

Pkt. 50¢; 1/64 Oz. \$4.00. Any color.

—**Double, Best Mixed.** **BEG-4DX. \$1.00**

The double flowered strain can also be had in the following separate colors:

Dark Blood Red; Bright Scarlet; Brilliant White; Copper-red and Salmon.

PRICE: any color. Pkt. 50¢; 1/64 Oz. \$2.75.

BEGONIA SPECIES:

The seed of most Begonia species is not plentiful and supplies in many cases depends on those growing them as a hobby; We will appreciate any one able to save good seed if they will contact us on the matter.

—**Evansiana.** **BEG-43. 35¢**

Showy hardy species; large pure pink fls; give some winter protection; good for a window plant also.

—**gigantea.** **BEG-54. 50¢**

Small white or pale pink flowers; good for pots or bedding.

—**REX TYPE.** **BEG-117. 90¢**

Many foliage variations; popular pot pl. **LW; C-38. 1/4 Oz. \$20.00.**

—**sikkemensis.** **BEG-151. 50¢**

—**Begonia Blend.** **BEG-X. 50¢**

This contains all kinds of Begonias.

BEILSCHMIEDIA.

—**tawa.** **BEIL-15. 50¢**

BELAMCANDA.

(bel-am-KAN-dah) Iridaceae. Iris-like perennials with stout root stalk, grown for their flowers and blackberry-like fruits which can be made up into dried material. Easily grown in full sun; best in sandy soil.

—**chinensis.** **BELA-1. 25¢**

Black-berry Lily; 4 ft; orange spotted

red fls; HP.

—Roots: Mailed during Sept.; 3 for 75¢; 12 for \$1.60.

BELLADONNA: see **ATROPA**.

BELLIS

Compositae. Annuals and perennials growing in tufts; easily grown from seed sown in early spring for flowers the next season; favorite for edging or can be planted in the lawn; C-31; LW.

POMPONETTE: A new early flowering good bedding strain, 4" high; fls very double, 1" ac and quilled petals.

—Rose.	BELL-9Z. 35¢
—Red.	BELL-9R. 35¢
—White.	BELL-9W. 35¢
—Mixed.	BELL-9X. 35¢

SUPER GIANT STRAIN: Special selection; fls measure up to 2" ac; nice pot plant.

—White.	BELL-8W. 25¢
—Deep Pink-Rose.	BELL-8Z. 25¢
—Cerise-Red.	BELL-8R. 25¢
—Mixed.	BELL-8X. 25¢

Any above: ½ Oz. \$2.25.

MINIATURE TYPE:

Small flowered type, very dainty for edging; HB.

—nose.	BELL-7Z. 25¢
—White.	BELL-7W. 25¢
—Miniature Mixed.	BELL-7X. 25¢

MONTSTROSA TUBULOSA:

Quilled petals; very showy.

—Red Beauty.	BELL-4R. 25¢
—Rose Beauty.	BELL-4Z. 25¢
—White Beauty.	BELL-4W. 25¢
—Montrosa Mixed.	BELL-4X. 25¢

All above: ½ Oz. \$2.00.

CHEVREUSE: An extra large flowering strain.

—Bernina.	BELL-6B. 25¢
White changing to pink; double.	

—Etna.	BELL-6E. 25¢
--------	--------------

Double dark red.	
------------------	--

—lutea.	BELL-6L. 25¢
---------	--------------

Rich yellow fls.	
------------------	--

—Pure Rose.	BELL-6Z. 25¢
-------------	--------------

—Tiflis.	BELL-6T. 25¢
----------	--------------

Double carmine-rose.	
----------------------	--

—Tubulosa Blend.	BELL-6X. 25¢
------------------	--------------

Any of above: ½ Oz. \$2.00.

PERENNIS:

The true or English Daisy; 6"; popular spring flowers; HP.

—Saier's Compacta.	BELL-3F. 25¢
--------------------	--------------

Intense rose, very compact; covered with fls lasting a long time; extra good new introduction.

—Longfellow.	BELL-3L. 20¢
--------------	--------------

An extra double bright red.	
-----------------------------	--

—Rose.	BELL-3LZ. 25¢
--------	---------------

Same in a pure rose.	
----------------------	--

—monterosa.	BELL-3M. 25¢
-------------	--------------

A pure rose; fine.	
--------------------	--

—Vesuvius.	BELL-3V. 25¢
------------	--------------

Nice ruby-red.	
----------------	--

—Rosea.	BELL-3Z. 25¢
---------	--------------

White with delicate rose centers.	
-----------------------------------	--

—Snowball.	BELL-3W. 25¢
------------	--------------

Pure white.	
-------------	--

—Perennis Blend.	BELL-3X. 20¢
------------------	--------------

Any of the above: ½ Oz. \$2.00.

BELLS of IRELAND: see *Molucella laevis*.

BERBERIS. (BER-ber-is)

Barberry. Be.beridaceae. Well known sh of great ornamental value and easily grown from seed sown in the fall when they germinate in the spring or sow in the spring; not necessary to sow inside.

—koreana. **BERB-53. 50¢**

Flowers in racemes, 1" long; bright red berries; Korea; 6 ft.

—Piperiana. **BERB-66. 40¢**

Similar to Mahonia aquifolium but lower

—Thunbergii. **BERB-84. 25¢**

Clean seed \$5.00 per lb.

—atropurpurea. **BERB-84A. 35¢**

Dark scarlet-red lvs. d. b., lb. \$5.00.

—pluriflora. **BERB-84P. 40¢**

More erect and leafy; from selected plants; Oz. \$1.50.

BERCHEMIA.

Rhamnaceae. Twining decid. sh; probably hardy in (V) zone.

—racemosa. **BERC-4. 30¢**

Greenish fls in 6" long panicles; red fr. turning black; Formosa. Oz. \$2.00.

BERGENIA.

Saxifragaceae. HP forming large clumps or colonies.

—ligulata. **BERG-15. 40¢**

1 ft; pink fls; large round shining lvs.

BERLANDIERA.

Compositae. Natives of the S. U. S. and Mexico; yellow ray- and disk-flowers; spring and summer.

—lyrata. **BERL-1. 30¢**

Covered in spring and summer with yellow fls with black centers, 1" ac; 8"; HA. Oz. 75¢; lb. \$8.00.

BERTOLONIA.

(ber-toh-LOH-nee-uh) Melastomaceae. Dwarf Brazilian plants; flowers in racemes. They are very attractive foliage plants in the GH, the lvs being purplish on under side and different metallic colors above; dense shade, humid atmosphere.

—Ladv Clare Amesly. **BERT-6. 60¢**

—maculata. **BERT-2. 50¢**

Lvs velvety green above, veins bordered with purple or magenta band; fls rose. (Seed was short this year—expect more)

—marmorata. **BERT-4. 75¢**

Lvs streaked with white along veins; fls purple.

BESCHORNERIA.

Amarillidaceae. Mexican evergreen shrubs resembling the Yucca.

—tuberiflora. **BESC-2. 35¢**

BESSEYA: see *Synthesis*.

BETA.

Beet. Chenopodiaceae. Ornamental sorts here listed.

—dracaenaefolia. **BETA 5. 40¢**

Fine bedding plant; narrow dark crimson foliage.

BETULA.

(BET-yew-luh)

Birch. Betulaceae. Deciduous trees of the North; thrive in moist sandy soils; transplant seedlings after one year's growth.

—Ermanii v. communis. **BETU-7C. 40¢**

Tr to 50 ft from Japan; bark grayish white to reddish; **Oz. 70¢.**

—**mandshurica v. japonica.** **BETU-22J. 50¢**
Japanese White Birch. **Oz. 75¢; lb. \$5.00.**
—**Maximowicziana.** **BETU-23. 40¢**
Monarch Birch. Tr to 100 ft; bark is flaking; Japan. **Oz. \$2.00.**

—**papyrifera.** **BETU-26. 25¢**
Canoe or Paper Birch. **Oz. \$2.00.**

—**pubescens.** **BETU-30. 40¢**
Tr to 60 ft; white peeling bark; Siberia. **Oz. 90¢.**

—**utilis.** **BETU-35. 50¢**
Tr to 60 ft; bark was used for paper in ancient times; fresh seed best.

BIDENS.

(BYE-denz) Compositae. Only garden species listed. Burr-Marigolds.

—**alternifolius.** **BIDE-1. 40¢**
Wing-stem. Yellow fls; Aug-Sept; 4-5 ft; HP.

—**dahloides.** **COS-10. 30¢**
(Cosmos atrosanguineus) Black Cosmos; red disk and dark velvety-red rays; per. but grow as annual; June-Oct; sun.

—**coronata.** **BIDE-4. 40¢**
Heads $2\frac{1}{2}$ " ac; rays golden yellow; IV); HA or HB.

—**tripartitus.** **BIDE-15. 25¢**

BIGNONIA: see **Tecoma.** (Tecomaria).

— **Tweediana:** see **Doxantha Unguis-cati.**

BILLBERGIA.

(bil-BURR-jee-uh) Bromeliaceae. Stemless epiphytic plants of tropical America; lvs in rosettes or clusters; fls showy, blue, in spikes or panicals; it is a showy plant for the GH or as a house plant.

—**Blend of Species.** **BILL-X. 75¢**

BIXA.

(BIX-uh) Bixaceae. Tropical Amer. trees; grown for its dye.

—**Orellana.** **BIXA-1. 30¢**
Annatto. Tropical tr. with rose fls 2" ac; fr. reddish brown; (X). **Oz. 80¢; lb. \$5.00.**

BLECHNUM.

Polypodiaceae. GH ferns suitable for rather dry atmosphere; plenty of moisture at the roots; good house fern.

—**gibbum.** **BLEC-8. 75¢**
(Lomaria gibba) Trunk to 5 ft; fronds 3 ft, and 12" wide; good specimen plant.

BLOOMERIA.

(bloo-MEER-ee-uh) Lilaceae. Natives of S. Calif; basal grass-like leaves; flowers yellow, wheel-shaped; they stand down to 20 degrees Far. in well drained soils. Dig corms up after flowering and replant in the fall.

—**Clevelandii.** **BLOO-2. 40¢**
A miniature Bloomeria; nice in RG; HHP.

—**crocea.** **BLOO-1. 40¢**
Golden Stars. Pure yellow; 18"; (V).

BOCCONIA cordata: see **Maclaya cordata.**

BOEHMERIA.

(boh-MEER-ee-uh) Urticaceae. Mostly natives of warm regions; makes nice GH plants for their ornamental fol; (IX).

—**nivea** **BOEH-8. 50¢**
Ramie; Chinese Silk Plant Sh to 6 ft; fls in panicles to 6" long; China; (IX).

BOLTONIA.

(bol-TOH-nee-ah) Compositae. Resemble wild Asters; easily grown from seed; it

makes nice border or wild garden display; good in moist places.

—**latisquama.** **BOLT-2. 40¢**
Masses of white to pinkish Aster-like flowers; showy in masses; good to cut; 5 ft; HP. $\frac{1}{4}$ Oz. \$1.00.

BOLUSTANTHUS.

(bo-lu-SAN-thus) Leguminosae. One Af. tree suitable for the South.

—**speciosus.** **BOLU-1. 50¢**
Tree Wisteria. Bright blue fls in pendulous racemes; 15 ft.

BOMBAX.

(BOM-bax) Bombacaceae. Large ornamental tropical trees; planted in the far S.

—**malabaricum.** **BOMB-1. 50¢**
Fls scarlet-red, 4" ac; fr 6" long. 100 seeds 1,000. \$15.00.

BORAGO.

(bor-A-go) Boraginaceae. Borage. Medit. plants useful in the garden, rocky and one grown as a herb; sow early in the Spring.

—**officinalis.** **BORA-3. 25¢**
An attractive plant; nodding heads of sky-blue fls; June-Sept; 2 ft; HA; can start from March to May; space 1 ft; it is an excellent plant for bee food. **Oz. 45¢.**

BORONIA.

(bo-RON-ee-ah) The genus contains some of the loveliest of Australian flowers. Most Boronias like sheltered, well drained places; very hot or cold winds are fatal; very good for GH or house; grow in pots of sandy, peaty soil.

—**heterophylla.** **BORO-40. 50¢**
Deep red fls; considered by some as best of genus; found in swampy soil of W. A; 5-10 feet high.

—**ledifolia.** **BORO-46. 50¢**
Deep pink flowers; dark green leaves; a very beautiful plant.

—**megastigma.** **BORO-50. 50¢**
Fragrant penetrating bloom; found on wet soils; 2 ft; flowers purple, yellow inside; W. Aust. $\frac{1}{4}$ Oz. \$2.00.

BOSSIAEA.

Leguminosae. Australian shs; fls red, yellow or orange; hardy in IX zone; ornamental.

—**floriosa.** **BOSS-10. 40¢**
Transplant with crown 1" deep, very hardy.

BOTRYCHIUM.

(boh-TRIK-ee-um) Rattlesnake Fern. 1-2 ft; broad triangular fronds; transplant with crown 1" deep; very hardy.

—**virginianum.** **BOTR-11. 50¢**
Rattlesnake Fern. Triangular fronds; lvs 6-12" long.

Plants: 50¢ each; 3, \$1.35. Prepaid.

BOTTIONEA.

(bot-ti-OH-nee-ah) Liliaceae. One bulbous plant from Chile.

—**thysanoloides.** **BOTT-1. 50¢**
(Anthesia plumosum; Trichopetalum gracile). White fls, $\frac{1}{2}$ " ac; 16 inches; HP.

BOUGAINVILLEA.

(boog-in-VILL-ee-uh) Nyctaginaceae. Easy to grow in any soil and full sun; pot plant in N; very beautiful woody vines.

—**NEW Hybrids.** **BOUG-6. 75¢**
Seeds from a rich collection of nearly 50 varieties; fresh seed best. 50 seeds \$2.50. Fresh seed during May.

BRACHYCOME.

(bra-KIK-oh-me)

A pretty and easily grown Australian annual, thriving in dry and sunny situation. They are covered with Cineraria-like flowers; good for edging or in the front border; seed sown in Aug. or Sept. will make excellent pot plants in early spring; sow seed in late April where they are to grow; makes a nice pot plant; C-7.

—iberidifolia.

BRACK-1. 20¢

Comes in several shades; June-Oct; 9"; HHA; space 6-9"; germinates 8 days; C-7. ½ Oz. \$1.25.

—Blue Bird.

BRACK-1B. 25¢

—Pink.

BRACK-1P. 20¢

—Purple King.

BRACK-1K. 30¢

—Red Star.

BRACK-1R. 30¢

—White.

BRACK-1W. 20¢

—Thompsonii.

BRACK-12. 40¢

From New Zealand.

BRACHYCHITON.

(brak-ik-RYE-ton)

Australian Flame Tree. (Sterculia) Bright scarlet flowers; very pretty; (X). ft. sh; China; (IV).

—acerifolium.

BRACC-1. 40¢

Australian Flame Tree. (Sterculia) Flowers bright scarlet; one of the most spectacular of Australian trees; 150 seeds to the ounce; 90 seeds to oz. Oz. 90¢.

—discolor.

BRACC-4. 35¢

(Sterculia) Lvs 6" ac; fr 6" long. 100 seeds \$1.00.

—populeum.

BRACC-7. 30¢

Kurrajong. Ornamental Aust trs; fls yellowish white, reddish inside, followed by fruits; (X). Oz. 90¢.

BRACHYSEMA.

Leguminosae. Australian shs; nice for warm regions.

—bracteosum.

BRAY-7. 50¢

3 ft; Australia.

BRACHYGLOTTIS.

(brak-i-GLOT-tis)

Compositae. Small trees and shrubs hardy in (X) zone; fls in terminal panicles with ray- and disk-fls.

—repanda.

BRAG-12. 35¢

Lvs 1 ft long; bracts white, shining; N. Z. (X); 12 ft.

BRAHEA filamentosa and filifera: see**Washingtonia filifera.** Palms.

New crop seed during October and Nov.

—glauca: see **Erythra armata.**

New crop seed during October and Nov.

BRASSAIA.

Araliaceae. Australian tree for far South.

—actinophylla.

BRAA-1. 40¢

40 ft; glossy fol; lvs to 1 ft long; (X).

BRASSICA.

(BRAS-ee-uh)

Cruciferae. Mustards. Cool weather plants; all easily grown; do not allow seed to spread to fields.

—nigra.

BRAS-19. 25¢

Black Mustard. Main source of table mustard; 6 ft; HA; young lvs used in salads Oz. 80¢.

BRITTONASTRUM.

Labiateae. TP; grown in herb garden.

—mexicanum.

BRIT-6. 40¢

(Cedronella mex; Agastache cana) 3 ft; pink fls 1" long; TP

Start nearly all biennials and perennials up to August 1st; some even later.

BRIZA

Quacking Grass. Ornamental grass grown for bouquets, dried or for specimen planting outdoors; sow seed early; C-17..

—maxima.

BRIZ-1. 25¢

A handsome species; bronze spikelets on slender drooping stems; May-Aug; 1-2 ft; HA; space 9"; C-17. ½ Oz. 60¢.

—minor.

BRIZ-2. 20¢

Smaller and dainter than maxima; 9-12"; HA; space 6"; C-17. ½ Oz. \$1.00.

BROMELIADS.

Mostly very nice GH foliage plants in N; grown as pot plants.

BRODIAEA.

(broh-di-EE-ah)

Liliaceae. Hardy in the VIII zone; used in borders or in pots; soil must be well drained.

—californica.

BROD-2. 40¢

Violet-purple fls; 1 ft; Calif; HP.

—capitata.

BROD-3. 40¢

Now Dichelostemma pulcellum. (!) Earliest; light blue; HP.

—coronaria.

BROD-4. 50¢

Violet-purple fls; 18"; B. C. to Calif.

—Douglasii

BROD-6. 50¢

Blue fls, 1" long; 2 ft; (grandiflora); Mont.

—Hendersonii.

BROD-7. 50¢

Yellow fl-heads; fls striped brown; very choice; sun or part shade; 4-6"; Ore.

—ledifolia.

BORO-46. 50¢

on sandy plains of N.S.W.; 2-3 ft. high.

—megastigma.

BORO-50. 50¢

Pink fls in winter; one of earliest; found

—ixiodes.

BROD-8. 50¢

—orcuttii.

BROD-9. 50¢

San Diego Wild Hyacinth.

—puchella.

BROD-11. 30¢

Erect heads; clear blue fls; 2 ft; sun; HP.

—Brodiaea Blend.

BROD-X. 25¢**BROMUS.**

(BROH-mus)

Brome-Grass. Gramineae. Annual and perennial grasses; they all are ideal subject as dried grasses.

—japonicus.

BROM-8. 35¢

Annual ornamental grass; not common in the U. S. ½ Oz. 90¢.

—macrostachys.

BROM-9. 35¢

Annual; 12"; grown as an ornamental grass. ¼ Oz. \$1.00.

—mollis.

BROM-12. 30¢

Purple Brome Grass. Australia.

—rubens.

BROM-19. 30¢

Red Brome. Australia.

—unclodes.

BROM-21. 25¢

Rescue Grass. Annual; 3 ft; forage grass in South.

BROWALLIA.

(broh-WALL-ee-ah)

Solanaceae. Free flowering half hardy annuals; excellent bedding plants; space 6"; they have intense blue fls; sunny places and good drained soil; start early; they make good pot plants.

These make nice pot plants; for GH sow seed July 15-30 in cool place; will produce plants for Xmas thru Jan; pinch pl. several times; grow 3 seedlings to 4" pot; 60 Fah. for Xmas or 50 degrees for later plants.

—americana.

BROW-1. 25¢

(B. elata; demissa) Fls small, beautiful violet-blue; best started in March at 60 degrees F. As a pot plant, use loamy soil and not firmly; 2 ft; space 1 ft; HHA. ¼ Oz. \$1.80.

—speciosa major.

BROW-3. 25¢

An excellent house plant; blooms both winter and summer; good potting compost

best and responds to liquid manure; pinch young plants; sun. 1/8 Oz. \$3.00.

BRUNFELSIA. (brun-FEL-zee-uh)
(brun-FEL-zi-ah) Solanaceae. GH shrubs and trees in the N or grown out doors in the far S. Fls in dense terminal cymes; rich loose compost and liberal feeding while in growth, blooming best if pot bound; 50 degree at night.

—**americana.** **BRUN-1. 40¢**
Lady-of-the-Night. 8 ft. shrub; white fls; very frag at night. 100 Seeds, \$3.50; 1,000, \$8.00.

—**macrophylla.** **BRUN-4. 40¢**
Alovely spring flowering border plant; Forget-me-not-like fls; indigo-blue; HP.

—**latifolia.** **BRUN-8. 40¢**
Tropical Amer. tree or sh; fls white to lavender and purple; 2½ ft; sweet scented; HHSh.

BRUNNERA. (brunn-er-ah)
Boraginaceae. Similiar to Anchusa.

—**australis.** **BRUA-1. 50¢**
Blue Pin-cushion. 1 ft; per; fl-heads blue; Australia.

—**macrophylla.** **BRUA-12. 30¢**
(Anchusa myosotidiflora) Dwarf light blue; spring flowering. ¼ Oz. \$2.50.

BRUNONIA. (bru-NON-ee-ah)
Goodeniaceae. Australian genus.

—**australis.** **BRUO-1. 30¢**
Mat of dark green lvs; beautiful sky-blue pincussion-like fls, 1" ac on stalks 1 ft high; Australia.

BRYONIA.
Bryonia. Cucurbitaceae. Herbs with fleshy root; sow in fall so seed will be exposed to the frost.

—**dioica v. alba** **BRYO-2A. 40¢**
To 10 ft; fls ¾" ac; HHP.

BUDDLEJA. (BUD-lee-ah)
Butterfly Bush. Leguminosae. Sow seeds over heat in the spring; hardy up into the (IV) zone; they are very pretty; seed sown in late Feb. and lightly covered will germinate freely; seedlings damp off easily, so give air circulation at night; keep pans above other plants in GH.

—**asiatica.** **BUDD-2. 30¢**
Tender; grow inside from spring sown seed; white.

—**Colvillei.** **BUDD-5. 30¢**
Dense spikes of purple fls; 15 ft; (V).

—**Davidii.** **BUDD-7. 30¢**
(variabilis). Oz. \$1.00.

—**japonica.** **BUDD-11. 50¢**
Japanese Hardy Buddleja. (B. curviflora) A very beautiful reddish sky-blue fl. Oz. \$3.00.

—**lindleyana.** **BUDD-16. 35¢**
c.s. Oz. \$1.00.

—**Buddleja Blend.** **BUDD-X. 25¢**

BULBINELLA. (bulb-in-NELL-uh)
Liliaceae. Perennials with fleshy tuberous roots; basal lvs; fls in dense racemes; S. Af; N. Z. border; rich soils.

—**Hookeri.** **BULB-4. 60¢**
3 ft; bright yel. fls, ½" ac in racemes -0" long; N. Z.

—**robusta v. latifolia.** **BULB-7R. 40¢**
Bright yellow fls; 1½ ft; S. Af; border.

Please do NOT write letters on orders!

BULOPHA.

—**Zeyhene.** **BULO-7. 40¢**
Native of South Rhodesia; (IX).

BUPLEURUM. (bew-FLOOR-um)
Umbelleferae. Thorough-Wax. Ornamental shrubs and plants.

—**fruticosum.** **BUPL-2. 40¢**
Sub-sh; 6 ft; umbels 4" ac; S. Eu.

BURDOCK: see *Arctium*.

Burnet, Garden. see *Sanguisorba officinalis*.

BUTIA.

Yatay Palm. Palmaceae. Hardy in (IX) or Gulf Coast.

—**capitata.** **BUTI-4. 50¢**
(Cocos cap.) Much planted in South.

—**Yatay.** **BUTI-9. 50¢**
(Cocos Yatay) Argentina; 30 seeds to oz. 100 seeds \$4.50.

BUXUS.

(BUX-us)
Box. Buxaceae. Evergreen sh. used for edging and hedges, thriving in shady places and in well drained soils; hardy up to zone V.

—**microphylla.** **BUX-4. 35¢**
(japonica) 5 ft. Oz. 75¢.

—**sempervirens.** **BUX-5. 50¢**
Common Box. To 25 ft. Oz. 90¢; lb. \$5.00.

CABBAGE—FLOWERING.

The plants look like miniature Cabbage with color like Flowering Kale. It grows more compact than Kale; color shows after cold weather sets in; see Kale for culture.

—**White on Green.** **CABB-WG. 30¢**

—**Red on Green.** **CABB-RG. 30¢**

—**Mixed.** **CABB-XG. 25¢**

CACALIA: see *Emilia*.

CACTI

This is a popular name for over 100 genera. Seeds are offered under their proper headings and we will try to list here each genus for which we have seeds.

A serious cause of loss in growing Cacti from seed is in disturbing the seedlings too soon, even pulling out weeds damages the little seedlings; that is why it is best to heat the soil to kill weed seeds. Usually it is best to leave seedling alone for 6 months.

WS: suitable for window sill culture; CG: cool greenhouse; WG: warm house.

Following is a list of the Cacti listed in this issue; for details see under their proper place. This list consists, also, of succulent, stone and mimicry plants.

CACTI SEED OFFERED

ACANTHOCEREUS.	LEUCHTENBERGIA.
BRILLOCACTUS.	MALACOCARPUS.
CEPHALOCEREUS.	MAMMILLARIA.
CEREUS.	MELOCACTUS.
CORYPANTHA.	NEOLLOYDIA.
CRASSULA.	NOTOCACTUS.
DELOSPERMA.	OREOCEREUS.
DOLICHOTHELE.	PILLANSII.
ECHINOCACTUS.	PILOCEREUS.
ECHINOCEREUS.	REBUTIA.
ESPOSTOA.	SELENICEREUS.
FRILEA.	SETICEHEUS.
GIBBAEUM.	STENOCACTUS.
KRAIZIA.	THELOCACTUS.
LEMAIREOCEREUS.	

STONE and other MIMICRY PLANTS

ARGYRODERMA.	HEREROA.
CHEIRIDOPSIS.	LITHOPS.
GIBBAEUM.	PLEIOSPILOS.
DINTHERANTHUS.	

OTHER SUCCULENT PLANTS

ALOE.	HAWORTHIA.
ANACAMPSEROS.	HEREROA.
ARGYRODERMA.	LAMPFRANTHUS.
CARPANHEA.	NANANTHUS.
CARPOBROTUS.	ODONTOPHORUS.
CISSUS.	OSCARIA.
CEPHAALOPHYLLUM.	OTHONNA.
CHEIRIDOPSIS.	PIQUETIA.
CYLINDROPHYLLUM.	PUYA.
DROSANTHEMUM.	RHINEPHYLLUM.
DIDYMAOTUS.	SEMMANTHE.
ECHINUS.	TITANOPSIS.
FAUCARIA.	VANHEERDIA.
GLOTTIPHYLLUM.	
MESEMBRYANTHEMUM.	

CACTI FROM SEED

If you are going to grow Cacti, my advise to you is to first buy this little book—\$1.50—64 pages of the very best cultural information. There is not a word in it but will help you to success by Edgar Lamb.

The following of Cacti represent the more important South American and Mexican species. Many are in stock but on some there may be 30 days or so delay. For other species see in regular list.....
PRICE: All packets in this list 75¢ each.

ASTROPHYTUM myriostigma.

CEREUS aurivillus.

—Blossfeldiorum.

—celsianus.

—chonde.

—chiotilla.

—chosicensis.

—chrysacanthus.

—dumortieri.

—eburneus.

—fossulatus.

—geometrizans.

—gigantea.

—herzogianus.

—hollianus.

—jamacaru.

—lanata.

—marginatus.

—marksianus.

—melanostele.

—pelmeri.

—pasacana.

—peruvianus.

—polylophus.

—pringlei.

—pruinesus.

—senilis.

—sericata.

—stellatis.

—straussii.

—thurberi.

—trollii.

CORYPANTA asterias.

—clava.

—radians.

ECHINOCACTUS coraiger.

—covillei.

—electracanthus.

—flavovirens.

—grandis.

—grusonii.

—hamatocanthus.

—haselbergii.

—horridus.

—ingens palmeri.

—leninghausii.

—ottonis.

—pilosus.

—recurvus.

—setispinus.

—sisnesii.

—wislizenii.

LOBIVIA bruchii.

—huascha.

— Yellow.

MAMMILLARIA aljibensis.

—cadereytensis.

—centricirrha.

—collinsii.

—compressa.

—coronaria.

—decipiens.

—elegans.

—elongata.

—fuliginosa.

—hidalgensis.

—leucocentra.

—Lloydii.

—meiacantha.

—mystax.

—nejauensis.

—rhodanta.

—v. pfeifferi.

—rosensis.

—Parkinsonii.

—Pringlei.

—vaupelii.

—zeilmanniana.

OPUNTIA ficus indica.

—macrocalyx.

—microdasys. Yellow

—v. Red.

—pilifera.

—scheeri.

—velutina.

RRHIPHALIS graeseri.

STENOCEREUS chichipe.

AGAVA pariflora.

—Victoria Reginae.

ALOE arborescens.

—brevifolia.

—striata.

—variegata.

COTYLEDON. undulata.

CRASSULA falcata.

DYCKIA brevifolia.

HAWORTHIA papillosa.

FAUCARIA tigrina.

—Mixed.

LITHOPS Mixed.**PLEIOSPILOS Lavender Granit.**

- bolusii.
- nelii.
- Mixed.

CACTUS BLEND

An extra fine blend of many Cacti, both American and foreign genera.

- Small Types Mixed. **CACT-SX. 50¢**
Small types grown in the S. W., U.S.A.
- Mound Types. **CACT-MX. 50¢**
A columnar species much like *C. azureus*.
- Barrel Types Mixed. **CACT-BX. 50¢**
Hardy in New Mexico.
- All Kinds Mixed. **CACT-X. 50¢**

Sow seed in pots or pans; use plenty of broken pots in bottom for drainage; medium: very fine peat dust or leaf mould, passed thru a fine screen; or both can be mixed together with ordinary course sand; equal parts. It pays to heat the soil that it be sterilized; place seed on top of soil; do not cover seed but just pressdown with the finger; set pans in warm water to soak well; repeat when soil becomes dry again.

Do not let soil dry out too much till the seedlings appear; germination usually takes place in 10-20 days but may be as long as 3-4 months. Keep in warm place with a little shade; watch pots when in water so that it can be removed just as moisture shows on the surface. Seed can be started any month but April and May are best for the beginner. Note the list of books offered on Cacti culture; there is not another such complete selection offerer anywhere.

BOOKS ON CACTI: In the book list you will find some very choice books, some of them recent printings of German authors; all are recommended.

NOTE: I would like to hear from any one growing or collecting Cacti to any extent. Also information that can be added to the text. will be appreciated.

CAESALPINA.

(sez-al-PIN-ee-ah) Leguminosae. Trees and shrubs of tropical regions, very ornamental and planted in the far South; soak seeds in warm water, for 12 hours before planting; transplant at sign of first true leaf as they dislike disturbing.

- coriaria. **CAES-2. 50¢**
(Libida coriaria) Divi-Divi. 30 ft; yellow fls. 100 Seeds \$3.00; 1,000, \$15.00.
- Gilliesii: see Poinciana Gilliesii.
- mexicana. **CAES-8. 50¢**
Shrub to 18 ft; yellow fls; (X).
- pulcherrima: see Poinciana pulcherrima.
- peltophoroides. **CAES-10. 50¢**
- spinosa. **CAES-14. 50¢**
(*C. tinctoria*, *Coueteria tinctoria*, *Tara spinosa*) Tr or sh; yellow fls in dense racemes to 8" long; (IX). Oz. 95¢; lb. \$8.00.

CAILLIEA.

- nyassana. **CAIL-2. 30¢**
Shrub with Acacia-like lvs; *S. Rhodesia*; (IX).

CAJANUS.

- Cajan. **CAJA-1. 30¢**
Pigeon-Pea Tropical shrub; yellow or orange fls; far South. Oz. 75¢; lb. \$5.00.

CALAMPELIS: see *Eccremocarpus*.

CALANDRINIA.

(kal-an-DRIN-ee-ah)

Low growing fleshy plants, grown as annuals in the rockery or for edging. Flowers are orange-yellow and coppery rose to brick-red or crimson-magenta. Best in sunny spot. —amaranth.

- Vivid crimson-purple fls; compact, 6"; **CALD-1. 25¢**
- HHB. Oz. \$1.00.

- ciliata v. *Menziesii*. **CALD-4. 25¢**
Red Maids. Crimson fls; erect; HA.

- umbellata. **CALD-8. 30¢**
A gem for chinks in rocks or very sandy or peaty soils; winter kills on clay; scarlet fls to 6"; best grown an annual; sow in Jan inside. 1/4 Oz. 1.50.

CALCEOLARIA

A very large genus from C. and S. America of creepers, herbs and shrubs. All have the pouch or slipper-shape flowers, usually in yellow, often with dots and splashes of other colors. Many are GH plants; they are not hardy in the North.

The best time to start for pot plants is in June; seed is very fine, so use care; mix seed with some sand and sow; do not cover seed but press down—cover pan with glass. Germination usually is about a week or 10 days; prick out into flats, 1" apart, keeping them in a cool moist place. They can be carried over summer, when established in their pots, in a cold frame. C-42; LW; germ. in 12 days.

**CALENDULA — Florist Strain**

- biflora. **CALC-2. 40¢**
Bright yellow fls; hardy and easy; 5"; HP.
- crenatifolia. **CALC-4. 30¢**
Yellow with orange-brown spots; GH.
- Kent's Hybrids. **CALC-4K. 75¢**
- rugosa nana. **CALC-4RN. 75¢**
- Best Hybrids. **CALC-4G. 75¢**
- multiflora Hybrids nana. **CALC-16N. 75¢**
- multiflora nana. **CALC-13N. 50¢**
- Flower Pillow. **CALC-4P. 50¢**
- Tigered and Spotted. **CALC-17T. 50¢**
- warf Compact. **CALC-17C. 50¢**
- Benary's Grandiflora. ... **CALC-9T. 75¢**
- hybrid rugosa. **CALC-4R. 75¢**
Small flowered; in best colors; pretty.
- grandiflora tigrina. **CALC-9. 75¢**
Finest strain of tigered flowers.
- herdeohybrida. **CALC-10. 50¢**
(Perfect Model) A nice form of *C. crenatifolia*.
- mexicana. **CALC-16. 30¢**
Pale yellow; HA species; easily grown out doors; cover seed lightly; June-Sept; 1 ft; showy; space 9".
- Florist Small Flowered **CALC-10FX. 75¢**
The best strain obtainable.
- Florist Mixed. **CALC-FX. 50¢**

CALENDULA

Compositae. Definitely cool weather flowers and in the South should be sown in the fall. They like full sun but do not take well to the burning sun of summer; in the North either start indoors or plant where they are to grow; select the right varieties for greenhouse or out door planting. 2 feet; all HA. seed can be sown in Autumn for early fls. (kal-LEND-u-lah)

PACIFIC BEAUTY STRAIN

This is a new introduction, the result of several years of selection; uniformly large fls of better formation, longer and straighter stems; more clear fls and more resistant to mid-summer heat.

—**Apricot Beauty.** CALN-7PA. 25¢
An attractive two-toned effect together with large fls and long stems.

—**Cream Beauty.** CALN-7PC. 25¢
Creamy white shading to soft light yellow makes this the most delicately colored of all Calendulas.

—**Lemon Beauty.** CALN-7PL. 25¢
Pure lemon color; long wide petals give the fls a much more graceful appearance with the centers well covered. Oz. \$1.00.

—**Persimmon Beauty.** CALN-7PP. 25¢
True persimmon-orange of unusual brilliance and size with graceful appearance; centers well covered; C-2. Oz. \$1.00.

—**Pacific Mixed.** CALN-7PX. 20¢
Any above: ½ Oz. 60¢; lb. \$9.00.

—**Apricot Queen.** CALN-7AQ. 20¢
A beautiful apricot color.

—**Ball's Gold.** CALN-7BG. 25¢
—**Ball's Masterpiece.** CALN-7BM. 25¢
Clear orange, dark center; GH variety.

—**Chrysantha.** CALN-7C. 20¢
Large clear buttercup-yellow.

—**Campfire.** CALN-7CF. 20¢
Large brilliant orange with lemon sheen.

—**Frilled Beauty.** CALN-7FB. 20¢
Double orange with frilled petals.

—**Indian Maid.** CALN-7NM. 20¢
NEW. Pale orange with distinctive maroon eye; showy.

—**Mammoth Orange.** CALN-7MG. 20¢
Best extra large deep orange.

—**Market Tangerine.** CALN-7MT. 20¢
Deep tangerine-orange; showy.

—**Meteor.** CALN-7M. 20¢
Double orange with yellow stripes; fine.

—**Orange King.** CALN-7GK. 20¢
(Special Strain) Rich deep orange-red, dark center, continuously grown and selected for over 25 years; Extra good for florist use. Oz. \$1.00; 4 oz. \$3.75.

—**Orange Fantasy.** CALN-7GS. 20¢
A crested type in orange; different.

—**Sunshine.** CALN-7S. 20¢
Golden yellow; curled petals; long stems; good for cutting.

—**Radio.** CALN-7R. 20¢
Double quilled petals; orange-scarlet.

—**Radio Golden Beam.** CALN-7RG. 20¢
Pure golden yellow; curled petals.

—**Yellow Colossal.** CALN-7YC. 30¢
Large Chrysantha type and more double.

—**Florist Varieties Mixed.** CALN-7FX. 20¢
Oz. 50¢; 4 oz. \$1.00.

—**Ari Shades Mixed.** CALN-7ASX. 20¢
In light pastel shades.

ANY ABOVE: Oz. 50¢; ½ lb. \$2.00.
—**Mixed Garden Varieties.** CALN-GX. 25¢
Oz. 40¢; 4 oz. 85¢.

MINIATURE TYPES:

—**Goldfinch.** CALN-7CG. 25¢
Golden orange with lighter edge. Oz. 80¢.
—**Canary Bird.** CALN-7CC. 25¢
Canary yellow, petals tipped brown. Oz. 80¢.

CALIFORNIA POPPY: see *Eschscholtzia*.

CALLA LILY: see *Zantedeschia*.

CALLIANDRA. (kal-lee-AND-ruh)
Leguminosae. (Anneslia) Tropical shrubs grown in the far South or in the GH farther North.

—**surinamensis.** CALI-7. 50¢
Large evergreen sh or tr from Dutch Guiana, bearing powder-blue-like fls, and white stamens with brightly tinted pink tips much resembling the Mimosa tree (*Albizia julibrissin*); very pretty; (X).
Germinates about 5 days.

—**quillinguii.** CALI-8. 50¢
—**Tweedii.** CALI-12. 50¢
(Inga pulcherrima) 6 ft; purple fls with long purple stamens; Brazil.

CALLICARPA.

(kal-lik-KARP-ah) Beauty Bush. Very attractive sh and trs having small pink, bluish or white flowers in axillary clusters followed by very showy berry-like fruits; hardy in (V) zone.

—**americana.** CALE-1. 35¢
French Mulberry. Sh to 6 ft; May-June; fr violet; (V).

—**Bodinieri V. Giraldii.** CALE-3G. 50¢
Shrub to 10 ft; pink fls in dense cymes to 1½" ac; July-Sept; fr violet; (IV). Oz. 90¢; lb. \$8.00.

—**dichotoma.** CALE-5. 50¢
(purpurea); dense shrubby species; pretty silver-green lvs; HSh. 3 ft. Oz. \$1.50.

—**japonica.** CALE-7. 50¢
5 ft. sh; pink or whitish fls in Aug; fr. small purple br; (IV)). Oz. \$2.00, c. s.

CALLIOPSIS

Compositae. The annual varieties of *Coreopsis* are listed here; the perennials are under *Coreopsis*. These are hardy annuals and make fine displays in the border as well as excellent cut-flowers. Sow seed early in April where they are to grow and thin to 6" of strong growth; C-7. (kal-lee-OP-siss).

DRUMMONDII. Most of the garden sorts belong to this species. Annuals to 2 ft; flower heads 2" across and on long stalks; flowers are rays; C-7. Golden Wave.

—**Gold Crest.** CALP-7GC. 20¢
Semi-double, crested, rich golden flowers.

—**Golden Crown.** CALP-7GN. 20¢
Crested, rich golden yellow. ½ Oz. 30¢.

—**Golden Wave.** CALP-7GW. 20¢
Pure yellow with dark brown center.

—**Semi-dwarf Mixed.** CALP-7DX. 15¢
Plants 2-2½ ft; in all colors.

—**Tall Varieties Mixed.** CALP-7TX. 15¢
Double and semi-double; fine for garden.

—**bicolor marmorata.** CALP-25M. 20¢
Bright golden, marbled with wallflower-red.

—**Crimson King.** CALP-7CK. 20¢
Dwarf variety with red fls. ½ Oz. 30¢.

—**Golden Ray.** CALP-7GR. 20¢
Dark purplish brown center; broad golden petals; dwarf.

—**nigra speciosa.** CALP-7N. 20¢
Quaint reddish maroon flower.



CALLIOPSIS—GOLDEN CROWN

TINCTORIA: These showy border plants are also good for cut-flowers; the rays are yellow, crimson-brown at the base and the disk brownish purple; HHA; 12-18".

—**bicolor.** CALP-6D. 20¢

Yellow and brownish purple fls; 24";

—**nana.** CALP-6BC. 20¢

Dwarf growing; golden yellow and crimson.

—**Hybrids.** CALP-6DX. 20¢

Double flowers in many colors.

—**Dazzler.** CALP-6BD. 25¢

Dwarf growth; scarlet with yellow.

Oz. 75¢.

Rich brilliant colors; 9 inches.

—**Golden Sovereign.** CALP-6G. 25¢

A new dwarf English variety. ½ Oz. 35¢.

—**Tiger Star.** CALP-6TS. 20¢

Rich bronze, striped and mottled yellow; 1 ft; pretty. ½ Oz. 30¢.

—**Mixed Tinctoria Varieties.** CALP-6X. 15¢

—**Dwarf Goblin Mixed.** CALP-6GX. 20¢

½ Oz. 30¢.

—**Dwarf Mixed.** CALP-DX. 20¢

½ Oz. 30¢.

OTHER SPECIES:

—**cardaminefolia.** CALP-8. 20¢

Bicolor flowers in yellow and brown,

1" across; 2 ft; HA.

—**Blood-Red.** CALP-8B. 25¢

—**nueceusis.** CALP-18. 25¢

Yellow rays, dark lined, heads 2" across;

2 ft; HHA.

CALLIRHOE. (kal-LIHR-oh-ee)

Maloaceae. Poppy-Mallow. N. A. annuals and perennials with picturesque lobed foliage and showy flowers in pink, red or reddish purple; long in bloom; thrives in poor and dry soils; sow seed in Feb. at 45 deg. F; sow as soon as seed is available; germinates in about 21 days.

—**involuta.** CAL-2. 30¢

Wine Cup. Claret-crimson; cup-shaped; June-Sept; 3 ft; treat as HHA; space 12".

CALLISTEMON. (kal-liss-STEEM-on)

Bottle-brushes. They are among the most showy and decorative of Australian shrubs and trees; cut back well after flowering to keep them shapely; (Myrtaceae); (IX).

—**brachyandrus.** CALS-2. 40¢

6-8 ft; pointed needle-like lvs; deep red fls tipped golden yellow; one of the best; resistant to dry conditions; S. A.-N. S. W.

—**citrinus.** CALS-3. 30¢

(C. lanceolata) Fls with bright red stam-

ens; 30 ft; (VIII); Australia.

—**lilacinus v. carmine.** CALS-11. 40¢

8 ft; Australia.

—**linearis.** CALS-12. 30¢

Heavily blooming pin-flowered Bottle-bush; very choice; fls with red stamens; 10 ft; (VIII).

—**pumila.** CALS-12P. 40¢

4-6 ft; deep red fls; warm conditions; N. S. W.

—**pinifolius.** CALS-16. 40¢

6 ft; Australia.

—**rigidus.** CALS-18. 40¢

5-8 ft; shrubby; red fls; prune well in autumn; dry conditions; N. S. W.

—**rugulosus.** CALS-13. 25¢

(coccineus) 10-15 ft; pinkish red fls, tipped with gold; moist sandy soil; S. A.

—**salignus.** CALS-15. 35¢

Tr to 30 ft; white fls with yellow or pink stamens; Australia.

—**speciosus.** CALS-17. 40¢

Very showy species.

—**viminalis.** CALS-22. 35¢

Tr to 4 ft; pendulous habit; fls scarlet in dense spikes; Australia.

—**violacea.** CALS-78. 40¢

Mauve-purple fls; tall dense shrub.

—**Mixed.** CALS-X. 25¢

CALLISTEPHUS: see **Asters.**

CALLITRIS.

Cypress Pine. Cupressaceae. Ev. trs of Australia; suitable in Fla, Calif and S. Tex.

—**calcarata.** CALX-5 50¢

40-50 ft; Australia.

—**glauc.** CALX-8. 50¢

—**Morrisonii.** CALX. 50¢

—**robusta.** CALX-15. 50¢

—**tasmanica.** CALX-22. 50¢

CALLUNA. (kal-LEW-nuh)

Heather. Ericaceae. One hardy evergreen shrub with many varieties.

—**vulgaris.** CALL-1. 35¢

Rosy pink fls; 2 ft; late summer; HP.

Oz. \$1.00; lb. \$7.00.

—**St. Patrick.** CALL-1S. 40¢

Red-brown foliage; 4-6"; Aug.-Sept.

CALOCEPHALUS.

Compositae. Australian annuals; fls in terminal cluster heads.

—**citreus.** CALOC-5. 40¢

Grass-like silvery basal lvs; clear yellow globular fls on slender stems, heads ½" long; 2 ft; blooms from st till fall; Aust.

CALOCHORTUS

Liliaceae. Mariposa-Lily; Globe Tulip W. Amer. plants forming corms and bearing bell-shaped lilac, yellow or white flowers. They are also known under Star Tulip; Sego Lily; Fairy Lanterns. They are of great beauty, hardy but need protection from winter heaving; sunny places; light soil; treat as you would the regular Tulips.

—**albus.** CALO-2. 40¢

2 ft; white fls; Calif.

—**amabilis.** CALO-4. 40¢

Golden G. L. Golden yellow fls; 18 inches.

—**barbatus.** CALO-11. 40¢

Yellow; Y2 ft; HHB; treat like Gladiolus

or grow in GH; also bulbils.

—**Caftalmæ.** CALO-36. 50¢

—**argillosus.** CALO-8. 40¢

—**eurycarpus.** CALO-22. 40¢

White to lavender; 18"; Oregon.

—**Greenei.** CALO-30. 40¢

Lilac, marked yellow; 18"; Calioornia.

- Howellii.** CALO-33. 50¢
- Hybrids.** CALO-34. 40¢
- Luteus x vestae hybrids.**
- longebarbatus.** CALO-38. 40¢
- luteus.** CALO-40. 40¢
- Yellow or orange fls, lined with brown; 2 ft; California.
- monophyllus.** COLO-48. 40¢
- Yellow Star-Tulip. Lellow fls, brown base; 10"; California.
- macrocarpus.** CALO-44. 40¢
- Green Banded M. Purple fls with green band; 2 ft; B. C.
- nitidus.** CALO-50. 40¢
- Lilac or purple, dark spots; 18"; Wash.
- Palmeri.** CALO-53. 40¢
- pratensis.** CALO-56. 40¢
- purpureus.** CALO-60. 40¢
- Treat like Gladiolus or in GH; 10"; bulbs; Calif.
- spatulatus.** CALO-61. 40¢
- Real large bulbils; HHE; treat like Gladiolus or in Greenhouse.
- Tolmei.** CALO-64. 40¢
- Erect; 18"; creamy white, tinged purple.
- venustus.** CALO-68. 40¢
- White M. Pale lilac, reddish brown spots, 2" long; 10"; Calif.
- Vestae.** CALO-70. 40¢
- Fls similar to venustus; 10".
- 10 Species** CALO-XX. 40¢
- Ten species not listed above.
- Mixed.** CALO-X. 40¢

CALODENDRUM. (kal-oh-DEN-drum)
(kal-oh-DEN-dron) Rutaceae. One So. Af. tree with showy fls; out doors in far South.

- capense.** CALR-1. 50¢
- Cape Chestnut. A beautiful tree with dark green foliage and showy flowers, light rosy lilac with purple dots; grown in the S. 50 seeds to ounce.

CALONYCTION.
(kal-oh-NIK-tee-on) Convolvulaceae.
Moonflower. Tropical twining plants that are grown as annuals in the N; notch seeds before planting for best germination; they make pretty vines; germ. 14 days.

- aculeatum.** CALON-1. 35¢
- (I. Bona Nox) Common Moonflower; white flowers.
- Black Seeded.** CALON-1B. 35¢
- Tuba.** CALON-5. 35¢
- Similar to C. aculeatum; white fls, 6" long; S. Fla; (X).

CALOPHYLLUM.

Guttiferae. Tropical trs with leathery lvs; useful in S for oil, gum and ornament.

- inophyllum.** CALM-9. 40¢
- Kamani. White fls, frag; 60 ft; 6 seeds to the ounce.

CALOTHAMNUS. (kal-oh-THAM-nus)
Myrtaceae. Australian shrubs; showy fls in clusters or spikes.

- asper.** CALH-1. 40¢
- Lovely pine-needle Bottle-brush; superb red fls all year in Calif; drought resistant; best all-round tropical shrub.
- sanguineus.** CALH-26. 40¢
- Silky Leaf Blood Flower. 5-10 ft; vivid red tassel-like fls; best in sandy soil; W. A.
- villosus.** CALH-32. 40¢
- Prettiest of all species; soft hairy pine-like lvs, showy; rich deep red fls; followed by woody seed cases; W. A.

Have you good native flowers near at hand? We are interested; write us.

CALPURNIA. (kal-PUR-ne-ah)
Leguminosae. Trees and shrubs; flowers in racemes; native of S. Af. and grown out doors in the S and in the GH in the N. They are very ornamental.

- aurea.** CALU-1. 30¢
- African Laburnum. 15 ft; yellow flowers.

CALTHA.

(KALTH-ah)
Ranunculaceae. Small succulent perennials thriving in marsh land near running water but they can be grown in moist sections of the garden. They are long lasting when cut. Slow to germinate.

- biflora.** CALT-1. 30¢
- White buttercups; RG; full sun; HP.
- leptosepala.** CALT-4. 25¢
- Similar to C. bicolor; 4"; HP.
- pulustris.** CALT-6. 40¢
- Marsh-Marigold. 2 ft; bright yellow fls, 2" ac; April; young lvs are edible.
- scaposa.** CALT-8. 25¢

CALYCANTHUS.

(kal-ik-KANTH-u-s) Calycanthaceae.
Sweet Shrub. N. Am. shrubs with fragrant brownish fls; best in a rich well drained soil.

- acuminatus.** CALK-1. 40¢
- floridus.** CALK-4. 50¢
- Carolina Allspice. 10 ft; fls dark reddish brown, 2" ac; (V). Oz. \$1.00.
- praecox:** see *Chimonanthus praecox*.

CALYTRIX.

Myrtaceae. Heath-like Australian shrubs. Australia; mostly W. A; heath like shs; hardy only in South.

- tenuifolium.** CALY-22. 40¢
- Purple and white fls; 1 ft; largest fls in the genus; Australia.
- sapphyrina.** CALY-16. 50¢
- teiragona.** CALY-24. 40¢
- 3-5 ft. sh; white fls, pretty; one of the gems; good in sandy and well drained soils; Australia.

CAMASSIA.

(ka-MASS-ee-ah)
Liliaceae. N. Am. bulbous plants with blue and white flowers in graceful racemes and narrow grass-like foliage; very hardy; plant in groups; slow to germinate; C-24.

- esculenta.** CAMA-3. 25¢
- Erect spikes of pale blue; cuts; 2 ft; HP.
- Leichtlinii.** CAMA-6. 25¢
- Pretty purple to creamy white; 18-24"; HP.
- Quamash.** CAMA-7. 25¢
- Blue fls; 18"; May; fine; HP.
- Camassia Blend.** CAMA-X. 25¢

CAMELLIA.

((kam-MELL-ee-uh)
Theaceae. Ev. trees and shrubs. Popular ornamentals for the South or GH; seedlings makes the best stocks for grafting. Sow seed in spring, as a rule, in sandy soil with enough peat to give a 4.5-5.5pH. Soak seed over night in warm water; cover 1" with soil; germinates in 2 or more weeks.

- japonica.** CAME-3. 50¢
- The common Camelia of our South; it comes in many varieties. Oz. 50¢; lb. \$2.50. 25-40 seeds per ounce.
- japonica fl. pl.** CAME-3D. 40¢
- This is a double flowered variety. 100 seeds 75¢.
- reticulata.** CAME-7. 50¢

Sh with large single fls 7" ac; crimson-rose; China; Oz. 75¢; lb. \$4.60.

SINENSIS.

CAME-8. \$1.00

Tea. There are many strains or types grown, most all being unsuitable for growing indoors in temperate zone. The type I offer here is best suited for GH or conservatory growing, blooms well, has smaller leaves; germination is lost very rapidly and thus it will be best to order before seed arrives late in Oct. or November. Soil should be acid (pH about 5.0); water must be free of calcium (use rain water); then grow as for Camellias; seeds are large; soak seed ½ day in soft water; must be air mailed if you live any distance.

—Sasangua.

CAME-10. 50¢

(Thea Sasanqua) Sh; white to red fls 2" ac; single; China; 35 sd. to oz; Oz. 65¢; lb. \$1.65.

CAMOMILE: see *Matricaria chamomile*.

CAMPANULAS

(kam-PAN-u-lah) Bell-flowers. Biennials, perennials and a few annuals. They are excellent for the border and some for the RG and all make nice cut flowers. They can be started early indoors or as late as July; a covering of leaves for winter protection is good; prefers a light loamy soil. For a good book on all species order Crook's "Campanulas", \$5.00. It is good.

It is recommended to sow seed of the annuals direct to where they are to grow; nearly all are definitely lime-haters and all the perennials, excepting the Himalayan species are best sown late in the fall.

MEDIUM: Canterbury Bells. Single flowers; 3 ft; June-July; HB; C-29; LW.

—Blue. CAMP-1B. 25¢

—Lilac. CAMP-1L. 25¢

—Rose. CAMP-1Z. 25¢

—B'end. CAMP-1X. 25¢

¼ Oz. 30¢; Oz. 90¢. Any above.

MEDIUM, DOUBLE:

—Blue. CAMP-2B. 25¢

—Dean's Hybrids. CAMP-2DX. 25¢

Double and single flowers.

—Rose. CAMP-2Z. 25¢

—White. CAMP-2W. 25¢

—Blend of Above Varieties. CAMP-2X. 20¢

¼ Oz. 60¢; Oz. \$2.00. Any of above.

CALYCANTHEMA: Cup-and Saucer; 2½ ft;

HB; (C-29).

—Blue. CAMP-3B. 25¢

—Lilac. CAMP-3L. 25¢

—Rose. CAMP-3Z. 25¢

—White. CAMP-3W. 25¢

—Double & Single Mixed. CAMP-3DX. 20¢

—Blend of Above Varieties. CAMP-3X. 20¢

¼ Oz. 50¢; Oz. \$1.60. Any of above.

CAMPANULA SPECIES:

—Allionii. CAMP-7. 60¢

Very dwarf; 2-3"; blue or white fls; Mts.

—barbata. CAMP-13. 25¢

Distinct; pretty porcelian-blue; 12"; HP;

this has a tap root; LC.

—betulaefolia. CAMP-15. \$1.00

Rare; 2" crevice plant with the palest

pink fls; RG; Armenia; very choice; HP.

—carpatica. CAMP-20. 25¢

Bloms all summer; erect blue fls; 12";

HP; LC. ¼ Oz. \$1.00.

—Dwarf Hybrids.

CAMP-20H. 35¢

—Conoieiy.

CAMP-20C. 35¢

—White

CAMP-20W. 25¢

¼ Oz. 80¢.

—White Star.

CAMP-20WS. 50¢

—turbinata.

CAMP-20T. 25¢

Erect cup-like, light blue fls; neat RG;

6 inches; HP.

—cephallenica.

CAMP-23. 50¢

It is the most distinct of the garganica

ing; blue; HP.

—collina.

CAMP-25. 25¢

Deep blue; neat dwarf RG; 8"; HP; LC.

group; loose growing; fls larger than type.

—cochleariifolia.

CAMP-24. 40¢

(pusilla) Pretty RG plant; 2-8"; fls nodd-

fragile blue flowers. 1/32 Oz. \$5.00.

—Elatinus v. garganica. CAMP-30G. 30¢

Blue stars; 3"; requires lime; is variable

but this is a good selection; HP. 1/8 Oz.

\$2.00.

—Formanekiana.

CAMP-37. 25¢

Erect, large showy white fls; lvs silver

gray; 8"; seed will germinate any time but

if sown in Feb. good plants will be had for

the season; plants die down each year afte-

seed has formed; HP.

—fragilis.

CAMP-38. 30¢

Trailer; fine for baskets; blue fls with

white centers; 15"; HP; C-44. 1/16 Oz. \$5.00.

—garganica: see *Elatines*.

—glomerata superba.

CAMP-40. 40¢

Large clusters of deep rich violet fls; 2 ft;

HP.

—lactiflora, Laddon Anna.

CAMP-48A. 50¢

—latifolia.

CAMP-51. 25¢

Very large blue fls; excellent; 3 ft; HP.

—macrantha.

CAMP-51M. 30¢

Large deep violet fls; showy in border;

2 ft; HP; LC.

—Leutweinii.

CAMP-53. 50¢

Believe this is true.

—moesiaca.

CAMP-58. 50¢

Flowers in violet-blue heads; HB.

—persicifolia.

CAMP-71. 40¢

Large blue fls; very pretty; 3 ft; HP.

C-23 or 24. ¼ Oz. \$1.10.

—White.

CAMP-71W. 25¢

¼ Oz. \$1.20.

—Big Ben.

CAMP-71BB. 5¢0

A verpy large flowered blue; from Den-

mark. 1/16 Oz. \$1.00.

—alba fl. pl.

CAMP-71DW. 30¢

Double white variety. ¼ Oz. \$1.00.

—Blue fl. pl.

CAMP-71DB. 25¢

¼ Oz. \$1.20.

—Telham Beauty.

CAMP-71T. 25¢

Fine blue variety; due to chromosome

doubling, is larger in all its parts and

more vigorous. ¼ Oz. \$1.20.

—Poscharskyana.

CAMP-78. 40¢

Lovely pale blue fls; 4"; HP.

—Pyramidalis.

CAMP-87. 25¢

Chimney Bellflower. Fine border; pale

blue; 3 ft; HP; best started Feb or Mar. 60.

—New Giants.

CAMP-71G. 50¢

—alba.

CAMP-87W. 25¢

Either color: ¼ Oz. 50¢.

—Raineri.

CAMP-91. 50¢

3-4" high; deep violet fls; Alps; HP.

—Rapunulus.

CAMP-96. 25¢

Rover Bell-flower. An invading Cam-

panula; erect; 3 ft; not recommended for

gardens on account of its invasive nature

but it pretty in waste places; HP.

—rotundifolia.

CAMP-99. 25¢

Harebell. Slender, graceful habit; pale

blue; 18"; HP; LC.

—Olympic.

CAMP-99P. 25¢

Large beautiful deep lavender fls; 2 ft;

HP; LC. ¼ Oz. \$3.00.

- sarmatica.** **CAMP-103. 25¢**
Very distinct dwarf species; violet nodding fls; 18"; HP.
- Sartori.** **CAMP-104. 25¢**
White narrow bell-shaped fls; 10"; good crevice plant; HP.
- Speculum:** see **Specularia** **Speculum-Ven-**
CAMP-109. 50¢
- Schenchzeri.** **CAMP-121. 50¢**
- thyrsoides.** **SPEC-3. 25¢**
- eris.**
- Tommasiniana.** **CAMP-122. 25¢**
Nodding violet fls; stem not upright; 1 ft; HP.
- Rock Garden Species.** **CAMP-RG. 50¢**
Low growing types for the rockery.
- Campanula Blend.** **CAMP-X. 25¢**

CAMPISIS.

(KAMP-sis)

Trumpet Creeper. Bignoniaceae. Climbing shrub; rich soil; sunny positions.

- grandiflora.** **CAM-2. 30¢**
(Tecoma grandiflora) Chinese Trumpet. Scarlet fls, 3" ac; (IV). **Oz. 70¢; lb. \$5.00.**
- radicans.** **CAM-4. 30¢**
Trumpet Vine. (IV). **Oz. 60¢; lb. \$4.00.**

CAMPTOSONIS: see under **Ferns.**

CAMPTOSORUS.

(kamp-toh-SOHR-us)

Walking Fern. Polypodiaceae. Ferns that roots at tnps. thus the name; hardy; grown in rocky soils or in wild garden.

- phlebillus.** **CAMF-3. 50¢**
Walking Fern. Prefers dry shaded rocks; manner of growth suggests steps; evergreen; 4-12 inches.
- Plants: 60¢ each; 3, \$1.50. Prepaid.**

CANARY-BIRD-VINE: see **Tropaeolum.**

CANDYTUFT: see **Iberis.**

CANNA

Cannaceae. Tropical summer flowering plants growing from thick fleshy tuber-like roots; they are valued for bedding, their tropical appearing foliage and brilliant flowers making a bold display. File notch in seed before planting and soak in warm water 24 hours; start early in the spring; 4-10 ft.

C. FLACCIDA: The commonly grown type. C-45; about 100 seeds to ounce.

- Crozy.** **CANA-1C. 20¢**
Dark leaved sort in vivid pink, red, yellow and orange; TP. **Oz. 80¢; lb. \$8.00.**
- New Giant Hybrid.** **CANA-1H. 25¢**
Oz. 80¢; lb. \$8.00.

CAPPARIS.

(KAP-par-iss)

Capparidaceae. Shs and trs; berry-like fr; not hardy in N but can be grown as annuals; would be good on a warm sunny wall in zone (V) or (IV); should always be placed in as warm and sunny position as possible; interesting as well as useful.

- spinosa.** **CAPP-2. 35¢**
Caper-Bush. Shrub to 3 ft; grown extensively in the Medit. regions for its flower buds; start indoors; 60-70 degrees Fah. necessary for germination. **Oz. 75¢.**
\$2.60.

CORRECT CLASSIFICATION

We try to list all seeds under their proper botanical classification; spelled correctly and even to proper capitalization. Any errors noted, will appreciate your calling our attention to it.

CAPSICUM -PEPPER

Solanaceae. Pepper. Under this heading are listed the ornamental Peppers; they make excellent pot plants, and are grown for Xmas plants; requires a warm temperature, sun and fairly rich soil; C-22; germinates 15 days.

—**Christmas Cherry.** **CAPS-1CC. 30¢**
Small round Peppers; ornamental; makes nice pot plants.

—**Craig's Ornamental.** **CAPS-4C. 30¢**
A pretty dwarf ornamental Pepper; pods green; then turning white and purplish and finally red; these make fine pot plants for early winter.

—**Everbearing.** **CAPS-1E. 30¢**
Good sized bush or tr; grows all year; bears small sized peppers that are edible; good in salads, stews, etc; (X).

—**Red Fangs.** **CAPS-1RF. 35¢**
Ornamental; small red fang-like fruits; hot; good pot plant.

—**Christmas Tree Lights.** **CAPS-1T. 30¢**
Hot pepper grown as a pot plant.

—**Red Boy.** **CAPS-1RB. 30¢**
Small red Peppers; hot; nice pot plants.

—**Florist's Mixed.** **CAPS-FX. 50¢**
Many interesting small-fruited varieties; in shades of yellow, purple, and red. $\frac{1}{4}$ Oz.

—**Cutflower Types.** **CAPS-CX. 35¢**
Tall scarlet-yellow; much used in Europe; 30" tall; hang up to dry for straight stems. $\frac{1}{4}$ Oz. \$3.00.

—**Capsicum Mixed.** **CAPS-X. 30¢**
A mixture of interesting small fruited sorts; very ornamental and they also make good pot plants; contains some choice new sorts from Germany. $\frac{1}{2}$ Oz. \$3.00.

—**Zula.** **CAPS-1Z. 40¢**
A new variety from Denmark; black later changing to red.

GARDEN PEPPERS: see under **Peppers in Vegetable List.**

CARAGANA. (kar-ag-GAY-nuh)
Pea-Tree. Leguminosae. Shs and small trs; Central Asia; ornamental; sunny places; sandy soil; sow sp or fall; soak seeds; sow thinly but firmly; Feb. planting suggested.

—**arborescens.** **CARA-2. 30¢**
Yellow fls; May-June; Sib; 20 ft. **Oz. 70¢.**

CARAWAY: see **Carum Carvi.**

CARDIOSPERMUM. (kar-ee-oh-SPERM-um) Sapindaceae. Annuals and perennials, vines hardy in the N and excellent for covering fences or trellises; grows to 10 ft. The seed pods are inflated like balloons; best to sow seeds where they are to grow; light soil and a sheltered spot.

—**Halicacabum.** **CARD-3. 20¢**
Balloon Vine. Soak seeds; they take 30 days to germinate; C-8. **Oz. 50¢.**

CARDAMON: see **Elettaria.**

CARDOON: see **Cynara Cardunculus.**

CARDUUS. (KAHR-deus) Compositae. Plumeless Thistle; Silybum. Vigorous, robust spiny-leaved annuals and perennials with purple tubular flowers; very striking in both flowers and foliage; see also Cirsium.

—**benedictus.** **CDUS-2. 20¢**
Blessed Thistle. Large yellow heads; sow in April; 2 ft; HA; space 18"; as a medicinal herb cut as side branches begin



ORNAMENTAL CAPSICUMS—PEPPERS

to flower; whole plant dried. **Oz. 90¢.**
Marianus. **CDUS-3. 25¢**
Silybum Marianum. White fls; 4 ft; HA.

CAREX. (KAY-reks)
 Sedge. Cyperaceae. Grass-like perennial plants; many are ornamental.

—*inversa*. **CARE-10. 25¢**
 —*fraseri*. **Plants only.**

Fraser Sedge. 12-18"; ev; whitish spikes in March-April; shade; rich soil.

PLANTS ONLY: 75¢; 3 for \$1.90.

—*tereticauris*. **CARE-18. 40¢**
 Ornamental native Australian grass with rush-like light green stems; heads like green nobs; 1 ft; damp places.

CARICA. (KAY-rik-ah)
 Caricaceae. Tropical trees with melon-like fruits; grown in the far South.

—*cundinamarcensis*. **CARI-2. 25¢**
 Will stand a few degrees of frost and will flourish where the tropical type will not; should grow well even a little north of San Francisco, Calif when planted near trees for frost shelter.

—**Papaya.** **CARI-3. 25¢**
 Tropical tr to 25 ft; has huge fruits up to 11 lbs; flesh reddish or orange and yellow; edible. **\$2.50 per 100 seeds.**

CARLINA. (kar-LYE-nuh)
 Compositae. Grown in the RG or the the RG; large heads of tubular fls; seed can be planted inside in March. Do not allow plants to flower 1st year. if it has no side shoots. If soil is too rich few fls will form.

—**acaulis.** **CARL-2. 25¢**
 Silver Thistle. Stemless HP with solitary

white fls to 6" ac; 9"; C-24; FG. $\frac{1}{2}$ Oz. **\$2.00.**

CARLUDOVICA. (kar-lew-dol-VYE-kuh)
 Cyclanthaceae. Shrubby plants with Palm-like lvs; grown in GH; sow seeds in milled sphagnum; clean pulp off seed.

—*palmeta*. **CARV-7. 40¢**
 Fan-shaped; Peru; fiber used in Panama hats; popular in GH.

CARMICHAELIA. (kar-mye-KEEL-ee-uh)
 Leguminosae. N. Z. Broom. A remarkable genus, almost entirely from N. Z. Most species are leafless or nearly so when mature, the branchlets performing the functions of the lvs; (IX).

—*australis*. **CARM-1. 50¢**
 Erect sh with thin flat branchlets; fls small, pale purple in small racemes; 6 ft; (IX).

—*compacta*. **CARM-3. 50¢**
 Leafless; small pinkish white, frag fls; very dainty; 3 ft; try it as pot plant in N; (VIII).

CARNATIONS: see *Dianthus caryophyllus*.

CARPANTHEA. (car-pan-TEER-ee-uh)
 Aizoaceae. One S. Af. plant allied to Mesembryanthemum.

—*pomeridiana*. **CARN-8. 50¢**
 One of the finest of summer bloomers; large, fine rayed, bright yellow or white fls.

CARPINUS. (kar-PYE-nus)
 Hornbeam. Betulaceae. N. hemisphere sh; hardy in N, thriving in ordinary soils; hold in seed bed for 2 yrs; keep moist.

—*Betulus*. **CARP-2. 30¢**

European H. Tr to 70 ft; fruiting catkins 5" long. Oz. 50¢; lb. \$1.50.; c.s.

- cordata. **CARP-5. 50¢**
- Tr to 50 ft; Japan. Oz. \$1.90.
- japonica. **CARP-7. 50¢**
- Japanese Hornbeam. 50 ft tr; Oz. \$1.30.
- laxiflora. **CARP-8. 50¢**
- Tr to 50 ft; catkins 3" long; Japan. Oz. 75¢.
- orientalis. **CARP-9. 35¢**
- Thunbergii. **CARP-12. 35¢**
- Tr to 50 ft; catkins 3" long; N. Asia. Oz. 75¢.

CARPOBROTUS. (kahr-poh-BROH-tus)

Prostrate sh; excellent for outdoor planting during the summer; fls very large and showy.

- edulis. **CARO-7. 50¢**

CARTHAMUS. (KAHR-tha-mus)

Compositae. Bastard Saffron, Safflower. Spiny leaved annuals; saffron heads purplish, yellow or white, making ornamental clumps in the border; germinates in 18 days.

- tinctorius. **CART-3. 30¢**
- Orange heads; sow in April; 3 ft; HA. Oz. 75¢.

CARUM. (KAY-rum)

CARAWAY. Seed used for flavoring cakes, etc; plant in fall, will seed following season; HB; 3 ft; seed slow to germinate.

- Carvi. **CARU-3. 30¢**
- Lower German variety; improved; prefers an acid sandy soil; space 3"; the fruiting clusters dried keeps a long time in closed containers. Oz. 75¢; lb. \$2.5.

CARYOPTERIS. (kar-i-OP-ter-is)

Verbenaceae. Bluebeard. Tree and shs form Asia; usually grown in pots in GH; hardy only in far S; start in Spring.

- incana. **CAR-2. 35¢**
- Blue Spirea. Sh to 5 ft; treat as perennial plant; fls lavender-blue; China.
- x claudensis. **CAR-5. 35¢**
- Bright blue fls; compact habit; most decorative species; sh.

CARYOTA.

attractive s tub plants; grown out doors in far South.

- urens. **CARY-8. 50¢**
- Wine Palm. To 60 ft; lvs 20 ft long; far S.

CASSIA

Leguminosae. Senna. All are sun lovers and best in a sandy loam soil; very attractive with their finely cut foliage and showy flowers. Woody species are GH plants in the N and the herbaceous kinds may be grown in the border; file a notch in the hard seed coat to hasten germination.

- alata. **CASS-1. 35¢**
- C. Sh to 8 ft; fls in yellow spike-like racemes; Mr. Trumbower of Fla. says, makes showy yellow plant in 5 gal cans flowering first season.
- artemisioides. **CASS-2. 40¢**
- Wormwood. Shrub with silky gray lvs; sulphur-yellow fls; TA.
- australis. **CASS-3. 40¢**
- 5-8 ft; buttercup-like fls. 1" ac; moist places.
- bicansularia. **CASS-5. 25¢**
- Shrubs to 10 ft; yellow fls; (IX).
- candolleana. **CASS-6. 35¢**
- Sh covered twice yearly with clusters of

golden fls; prune back hard after flowering. Oz. \$1.25.

- corymbosa. **CASS-10. 40¢**
- (floribunda) Sh to 10 ft; yellow fls; GH.
- plurijuga. **CASS-10P. 40¢**
- didymobotrya. **CASS-13. 35¢**
- Sh to 10 ft; fls in racemes, ¾" long; Trop. Af; (X); yellow fls. Oz. 60¢.
- eremophila. **CASS-15. 50¢**
- 5-8 ft sh; one of the best; dense clusters of bright yellow fls; warm sections; Aust.
- fasciculata. **CASS-11. 35¢**
- Fistula. **CASS-16. 35¢**
- Indian Laburnum. Golden Shower. To 30 ft; long hanging sprays of yellow fls in 1 ft. racemes; also called Pudding-Pipe Tr. 100 seeds to oz. Oz. \$1.25.

- florida. **CASS-25. 35¢**
- fruticosa. **CASS-25. 40¢**
- glomerata. **CASS-14. 35¢**
- zygophylla. **CASS-14Z. 40¢**
- grandis. **CASS-12. 45¢**
- Pink Shower. Tall tree to 50 ft; weeping habit; peach-pink fls standing up in spurs on the branches; very pretty and good for shade; 50 seeds to oz. Oz. 90¢.

- grandis, Pink. **CASS-12P. 35¢**
- javanica. **CASS-17. 35¢**
- A lovely pink flowered species
- laevigata. **CASS-18. 25¢**
- Vigorous growing sh covered with a darker green leaf than most sorts; attractive in shapae and leaf arrangement; yellow fls; 6-8 ft; Australia.

- moschata. **CASS-21. 35¢**
- marginata. **CASS-20. 35¢**
- From Territory of New Guinea.
- marilandica. **CASS-19. 25¢**
- Wild Senna. Massive racemes yellow fls; July-Sept; 5 ft; sow in Spring in heat; protect base of plant with litter over winter; HHSh.

- multijuga. **CASS-22. 35¢**
- nicaraguensis. **CASS-24. 35¢**
- One of the showier trees from C. Am; yellow fls; TTr; (X).

- nodosa. **CASS-26. 30¢**
- Jointwood. Tall tr to 50 ft; rich pink fls in clusters along branches; a great sight when in bloom; (X); 125 seeds to ounce. Oz. \$1.25.

- occidentalis. **CASS-27. 35¢**
- renigera. **CASS-32. 35¢**
- Roemeriana. **CASS-29. 30¢**

Orange-yellow fls in terminal corymbose racemes; 1½ ft; HP; Texas. Oz. \$1.00.

- siamea. **CASS-35. 35¢**
- Kassod. Tr to 40 ft; bright yellow fls.
- Sennii. **CASS-39. 30¢**
- 5 ft sh; yellow fls in dense sprays; stands hot dry conditions; Australia.

- tomentosa. **CASS-45. 30¢**
- ½ Oz. \$1.50.

- tora. **CASS-43. 35¢**
- Species Mixed. **CASS-X. 35¢**

CASTANOSPERMUM.

Leguminosae. Tropical trees for the far South.

- australe. **CASP-1. 40¢**
- Moreton-Bay Chestnut. Black Bean. Ev. tr to 60 ft; very showy yellow to orange fls in racemes. 6" long; pods 9" long; (X); 100 seeds \$4.00; 20 to the lb; these are green and should be fresh; they come about Oct.

CASTANEA.

(kas-TAP-ne-ah)

Fagaceae. Chestnut. Showy decid. sh and trs of north temperate zone; for edible fr and ornament.

- crenata. **CASC-3. 50¢**
- (japonica) Japan C.; 30 ft tr; Japan. Lb.

\$1.00.

—**sativa.** **CASC-10.** 50¢
(Vesca) Spanish C. Tr to 100 ft; an attractive tr; 75 seeds to lb. **Lb.** \$1.00.

CASTOR OIL BEAN: see **Ricinus.**

CASTILLEJA.

(kas-till-EE-ah)

Scrophulariaceae. Painted Cup. Rare, due mainly to the difficulty in growing; do not transplant easily. They are showy annuals, biennials and perennials, native of the West. germination irregular.

CASUARINA. (kass-yew-uh-RYE-nuh).

Casuarinaceae. Australian Hardwood tr. and shrubs making nice street trees in the South and doing well near salt water.

—**Cunninghamiana.** **CASU-3.** 50¢
Valuable species; to 40 ft; in Australia; th; valuable timber tr; 60 ft; (X?).

—**distyla.** **CASU-5.** 35¢
(rigida) Sh or tr to 10 ft; Australia.

—**equisetifolia.** **CASU-6.** 50¢
Horse-tail Tree. To 70 ft; (X).

—**galuca.** **CASU-7.** 40¢
Tr to 50 ft; Australia.

—**tennuissima.** **CASU-10T.** 50¢
Beef-wood Tree. Odd looking tr with grayish pendulous branchlets; rapid grower.

—**lepidophloia.** **CASU-11.** 50¢
(cristata) Ornamental tr of Australia; its probably hardy to the Ohio Valley; good street tree.

—**nana.** **CASU-13.** 50¢
5-8 ft; Australia.

—**suberosa.** **CASU-14.** 40¢
25 foot tree.

—**stricta.** **CASU-16.** 50¢
Ornamental tr, 25 ft; especially good for street and parks; stands some dry conditions; has weeping appearance; Australia.

—**torulosa.** **CASU-17.** 35¢
Tree to 3 ft; Australia. ½ **Oz.** \$2.00.

CATALPA.

(cat-TAL-pah)

Bignoniaceae. Popular trs; showy in bloom; useful as ornamental trs; sow seed in spring seedlings damp off easily.

—**bigonioides.** **CATL-2.** 30¢
To 60 ft tr; fls white, 2" ac in panicles.

—**ovata.** **CATL-10.** 30¢
(Kaempferi) 30 ft. tr; China; yellowish white fls marked orange and violet, in 10" panicle; **Oz.** 75¢; **lb.** \$5.00.

—**peciosa.** **CATL-11.** 25¢
Western C. 100 ft; (IV). **c.s.** **Oz.** 50¢; **lb.** \$3.50.

CATANANCHE.

(kat-ah-NAN-kee)

Compositae. Cupid's-Darts. Herbaceous hardy annuals and perennials with long stalked blue or yellow heads of ray and disk flowers; they are not hard to grow but should be cut early and not allowed to mature too much; **HP.**

—**caerulea.** **CATA-1.** 25¢
Everlasting. Blooms first year; blue ray-fls; June-Aug; 2 ft; **HP;** **C-23.**

—**alba.** **CATA-1W.** 30¢
Silvery white. ½ **Oz.** 70¢.

CAULOPHYLLUM.

(kaw-loh-FILL-um)

Berberidaceae. Two erect rhizomatous perennial plants; border or wild garden.

—**thalictroides.** **CAUL-1.** 50
Blue Cohosh. Yellow-green fls; fruit or namental; shade; very showy; 150 seeds per ounce. **PLANTS:** 75¢ each; 3- \$1.65.

CEANOTHUS.

(see-ah-NOH-thus)

Rhamnaceae. Shrubs and small trees of the Pacific Coast and not hardy in the North. They have pretty small white or pink flowers in dense panicles. Best in a sunny sheltered place in well drained light soil; plants can be dug in the fall and wintered over in a frost-proof house.

—**amaricanus.** **CEAN-1.** 25¢
N. J. Tea. White fls; 3 ft; **HP.** **Oz.** \$2.00.

—**austroromontanus.** **CEAN-4.** 25¢
Evergreen; blue fls; 8 ft; **TP.**

—**crassifolus.** **CEAN-8.** 25¢

Shrub to 6 ft; white fls; very pretty lvs;.

—**cyaneus.** **CEAN-10.** 25¢

San Diego Lilac. Shrub; dark blue fls; May-June; showy; 10 ft.

—**gloriosus.** **CEAN-17.** 40¢

Prostrate sh to 1 ft; fls deep blue; S. Cal.

—**incanus.** **CEAN-20.** 35¢

White fls; white bark; 8 ft; Calif.

—**integerrimus.** **CEAN-21.** 25¢

Deer Brush. White fls; 12 ft; **HHP.**

—**impressus.** **CEAN-22.** 40¢

Spreading sh to 8 ft and 3 ft ac; fls dark blue; S. Calif.

—**Jepsonii.** **CEAN-26.** 35¢

—**leucodermis.** **CEAN-23.** 25¢

Spreading Lilac. White fls; 12 ft; Calif; (IX).

—**megacarpus.** **CEAN-29.** 40¢

Sh to 12 ft; small white fls in clusters; S. Calif.

—**prostratus.** **CEAN-35.** 50¢

Creeping ev sh; blue to white fls; gritty soils with clay or leaf mold; sun or light shade; **RG;** in N dig up plants and store in frost free cellar.

—**ramulosus.** **CEAN-40.** 40¢

To 4 ft; blue fls; rocky, sandy places.

—**spinosus.** **CEAN-46.** 45¢

—**tomentosa olivaceum.** **CEAN-47.** 30¢

—**thyrsiflorus.** **CEAN-43.** 25¢

Blue Blossom. Evergreen to 8 ft; blue fls; Oregon; **HP.**

—**verrucosus.** **CEAN-50.** 25¢

Low shrub covered with clouds of small flowers; S. Calif; (IX).

CEDELA.

(se-DREE-lah)

Meliaceae. A timber tr producing a valuable colored wood; ornamental; thrives in a fertile loamy soil.

—**Toona.** **CEDL-9.** 40¢

Tree to 70 ft; Himalays; (XI).

CEDRONELLA.

(sed-ro-NEL-lah)

One perennial shrublet; native of Canary Islands; ornamental.

—**cenaenis.** **CEDN-1.** 40¢

Canary Balm. White or lilac fls in whorls in loose terminal spikes.

CEDRUS.

(SEED-rus)

Cedar Pinaceae. Germinate in the dark. Species best raised from seed sown outside in early spring; the varieties are grafted.

—**atlantica.** **CEDR-1.** 30

Oz. 75¢; **lb.** \$5.00.

—**arabica.** **CEDR-1A.** 30¢

Oz. 85¢; **lb.** \$5.50.

—**deodara.** **CEDR-4.** 35¢

Himalays; soak seed 3 hours. **Oz** 80¢; **lb.** \$5.00.

—**glauca.** **CEDR-4G.** 35¢

—**libani.** **CEDR-5.** 35¢

Lebanon C. Asia Minor. **Oz.** 90¢; **lb.** \$6.00

CEIBA.

(say-EE-bah)

—**pentandra.** **CEIB-2.** 40¢

Silk Cotton Tree. Showy fls; good shade tree; (X).

CELASTRUS.

(sel-LAST-rus)

Celastraceae. Twining shrubs with showy capsular fruits; they are hardy and attractive; sow seeds in fall or stratify for spring planting.

—flagellaris.

CELA-5. 30¢

Hardy in (IV) zone; orange yellow fr; N. China. Oz. 65¢.

—orbiculatus.

CELA-6. 40¢

Orange-yellow fruits; Japan. Oz. 50¢.

—scandens.

CELA-11. 40¢

Waxwork or Bitter Sweet. Fls in terminal racemes, 4" long; orange-yellow fr; (III); 1-2 ft. Oz. 50¢, d.b.; lb. \$4.00.

PLANTS: 65¢ each; 3-\$1.80; 25- \$7.50.

CELERIAC.

—Giant Globe.

CELE-1G. 25¢

CELOSIA

Amaranthaceae. Cocks-comb. Popular annuals, all easily grown from seed which are best started indoors early in the spring. They grow best in a rich soil with plenty of moisture; (sel-LOH-shee-ah); germs. 12 d. 65-75 Fah is necessary in germ. seed in doors; set plants out in June. They want germinate till its warm, up to 80-90 degrees F; do not use commecial fertilizer as it splits combs.

CRISTATA: The Cockcomb. They make nice pot plants and are also grown for bedding; they are very showy annuals; C-9.

—Florist Strain.

CLOS-2F. 50¢

A brilliant mixture of all colors with both light and dark foliage; very uniform habit; 6-7 inches high. ¼ Oz. \$2.00.

DWARF VARIETIES: About 4-8 inches tall they are especially nice in pots or beds.

—aurea.

CLOS--2A. 25¢

Deep golden combs.

—Empress.

CLOS-2E. 25¢

Dark velvety crimson-maroon; 12"; Oz.

\$1.60.

—KARDINAL.

CLOS-2K. 30¢

Bright scarlet flowers.

—President Thiers.

CLOS-2T. 25¢

Velvety carmine-red combs; green fol; 10 inches. ½ Oz. 80¢.

—Rose Beauty.

CLOS-2R. 25¢

Soft rose combs; pretty in pots.

—Dwarf White.

CLOS-2W. 25¢

The best dwarf white variety.

—Dwarf Blend.

CLOS-2DX. 25¢

Oz. \$2.00. ¼ lb. \$4.50.

TALL VARIETIES: Grows 2-3 ft and nice in beds or border as well as for cut-flowers.

—Tall Varieties Mixed.

CLOS-3X. 25¢

Oz \$1.60; ¼ lb. \$3.75.

—Crimson.

CLOS-3C. 20¢

Bright crimson combs; 18 inches high.

—TOREADOR.

CLOS-3T. 30¢

New. Large velvety combs up to 12" ac; lustrous red; excellent for cutting or bedding; 18"; introduced in 1955.

—Royal Velvet.

CLOS-3R. 20¢

Rich carmine-crimson; bronze foliage with reddish margins.



CELOSIA—TOREADOR

GILBERT HYBRID COCKSCOMB: These are especially good for cutting, beds and as dried flowers; they hold their colors very long; C-9.

—Green Gold.

CLOS-5G. 25¢

Ball-shaped heads, silvery green to a flush rose; 30".

—Harlequin.

CLOS-5H. 25¢

Pink, tipped gold, changing to salmon; fine for pots; 18".

—Maple Gold.

CLOS-5M. 25¢

Ball-shaped heads; pink tipped with gold; leaves green; 3 ft.

—Rose Beauty.

CLOS-5R. 25¢

Large bell-shaped combs; 10-15" across; rose-pink; 3-4 ft.

—Blend of Above Varieties. CLOS-5X. 25¢

PLUMOSA: These are the feather-type Celosias; tall feathery plumes in various colors; the plumes are very showy and are excellent for both cutting or bedding; C-9. They make excellent dried fls; remove lvs and hang with spikes down; the orange variety is showy.

FOREST FIRE.

CLOS-6F. 35¢

A new variety—a great improvement over the old type; earlier in bloom; dwarf-er and with larger plumes in a more glistening orange shade than old types A bed of these makes a dazzling display. ¼ Oz. \$2.50.

—Golden Plume.

CLOS-6G. 25¢

Bright golden spikes; 3 ft. ½ Oz. 80¢.

—Little Guy.

CLOS-6LG. 30¢

Showy cerise-red; 15 in; Oz. \$1.25.

—Pride of Castle Gould.

CLOS-6P. 25¢

Large fluffy scarlet-crimson plumes; 3 ft.

PAMPAS PLUME.

CLOS-6PP. 25¢

An improved giant flowered mixture; large feathery spikes carried on good stems and range in color from deep crimson and scarlet, thru copper, gold and bronze; a fast growing strain, ideal for cutting. ½ Oz. \$1.00.

—Scarlet Plume.

CLOS-6SP. 30¢

Showy brilliant scarlet; 3 ft. ½ Oz. 80¢.

—Silver Feather.

CLOS-6SF. 35¢

Creamy white fls; very useful to mix with other colors. ¼ Oz. 80¢.

—Tango.

CLOS-6T. 25¢

A showy terra-cotta; fine contrast for beds; 3 ft.

—Fire Plume.

CLOS-6F. 25¢

Red foliage; fire-scarlet plumes; 3 ft.

LILLIPUT: The following varieties are low dwarf types of the above.

- Firebrand.** CLOS-6LP. 25¢
Bedding or for pots; brilliant scarlet plumes; 1 ft. ½ Oz. 75¢.
- Golden.** CLOS-6LT. 25¢
Deep yellow on dwarf plants. ½ Oz. 50¢.
- Red Plume.** CLOS-6LR. 25¢
Brilliant red; 15" plants. ½ Oz. 50¢.
- Blend of Above.** CLOS-6LX. 25¢
- Thompson magnifica, Mxd.** CLOS-6M. 25¢
Large bright flashy plumes; a fine strain. 3 ft; fine color range.
- Triumph of the Exhibition.** CLOS- 6E. 25¢
Another showy strain; 2½ ft.
- Fire Feather.** CLOS-6R. 25¢
Dwarf Florist's Strain. Brilliant scarlet in uniform plants, 12 inches high.
- Mixed.** CLOS-6X. 25¢
A blend of the above tall varieties.

CHILDSII: Chinese Woolflower. HA; C-9.

- Childsii.** CLOS-7X. 25¢

—**agrenhtea.** CLOS-13. 35¢
(spicata) 3 ft; fl-spikes 1-4" long; the common Cockscorn is derived from this species.

- Yochiyo.** CLOS-15. 35¢
A Japanese sort just added.

—**Mixed Celosia** CLOS-X. 20¢
A mixture of all kinds of Celosias.

CELMISIA. (kal-MIS-ah)

Compositae. Perennials native of N. Z. and Aust. with large solitary heads of pure white ray-flowers. (V).

- ceriacea v. Monroi.** CELM-1 50¢
Striking plant with silvery fol; large white fls; 18"; HHP.
- discolor.** CELM-2. 50¢
- incana.** CELM-3. 30¢
- petiolata.** CELM-4. 50¢
- compacta v. Monroi.** CELM-8. 50¢
- Lindsayi.** CELM-7. 50¢
- spectabilis.** CELM-9. 50¢
Amountain Daisy; neat foliage; white fls; 6"; (V).
- Traversii.** CLEM-11. 50¢
- Blend of Above.** CELM-X. 30¢

CELTIS. (CEL-tis)

Ulmaceae. Hackberry. Grown for ornament and shade; hardy in the N; lvs are Elm-like; most species are deciduous trees; sow seed as soon as ripe, in frames.

- australis.** CELT-1. 30¢
Dark purple fr; lvs 6" long; 75 ft; (IX). Oz. 60¢; lb. \$1.50; c. s.
- Bungeana.** CELT-3. 30¢
Tr to 50 ft; Manchuria; fr. purplish black.
- laevigata.** CELT-9. 50¢
Sugar-berry. Orange-red fruits; Ind.-Texas; to 100 ft.
- mississippiensis:** see laevigata.
- occidentalis.** CELT-11. 50¢
Orange-red fruits; Canada-Ala; to 120 ft. Oz. 50¢, c. s; lb. \$3.00.
- sinensis.** CELT-14. 50¢
Chinese Nettle Tree. Tr to 60 ft; grown in S; dark orange fruits. Oz. 95¢.
- Tournefortii.** CELT-18. 30¢
(orientalis) 20 ft; bluish lvs and reddish yellow fr. Oz. 85¢; lb. \$3.00.

Catalogs now cost over 35¢ each to even print them; the postage is about 12¢ so a charge must be made; orders of more than \$5.00 will receive a copy gratis.

CENTAUREA

Compositae. Herbaceous annuals and perennials, all of which have value as garden plants, blooming from June till frost. Annuals are hardy; space 12 in. apart; (C-2). (sen-tau-REE-uh).



CENTAUREA CYNUS

BACHELOR BUTTONS: Cornflower; Blue Bottle. HA; 2½ ft; fine cut flowers; C-2.

- Black Boy.** CENT-1K. 20¢
Blackish maroon double flowers.
- Blue Boy.** CENT-1B. 20¢
Pretty sky-blue color; double.
- Emperor William.** CENT-1E. 20¢
A lovely clear light blue; one of the best. Single flowers.

—**EARLY STRAIN MIXED.** CENT-1DX. 25¢

An extra early NEW STRAIN that will flower 20-25 days earlier than any of the regular strains. Several new colors have been added in the development, including two new shades of pink, a light blue, a deeper red and a beautiful new mauve color; fls 1½-2" ac; fully double; plant is slightly more dwarf and compact. ¼ Oz. \$1.50.

- Maroon.** CENT-1M. 20¢
Large double maroon flowers.
- Mauve.** CENT-1V. 20¢
- Pinkie.** CENT-1P. 20¢
Deep pink; excellent pink strain.
- Red Boy.** CENT-1R. 20¢
- Rose.** CENT-1Z. 20¢
Single flowers.
- Snowman.** CENT-1W. 20¢
The best double white variety.
- Blend of Above Varieties.** CENT-1X. 15¢
Any of above: Oz. 75¢.

C. CYANUS NANA: Same as above but in low bushy plants excellent for pots or bedding.

- Azure Fairy.** CENT-2Z. 25¢
Light blue; double; 12 inches.
- Jubilee Gem.** CENT-2J. 25¢

- Dark blue on extra nice 12" plants.
 —Polar Gem. CENT-2P. 25¢
 A pure white variety of above.
 —Lady Lilac. CENT-2L. 25¢
 Lilac or lavender color.
 —Purple Prince. CENT-2R. 25¢
 —Blend of Above. CENT-2X. 20¢

- C. IMPERIALIS:** Giant Sweet Sultan. A hybrid between *C. moschata* and the white variety. 4 ft; flowers soft thistle-like heads; nice border plants or cutting; HA; C-1.
 —graziora. CENT-28G. 35¢
 Lilac flowers.
 —Rose. CENT-28Z. 25¢
 —splendens. CENT-28S. 25¢
 Reddish violet flowers.
 —White. CENT-28W. 25¢
 —Blend of Above Varieties. CENT-28X. 15¢
 Any above: ½ Oz. 60¢.

- C. MOSCHATA:** Sweet Sultan. Fragrant white, yellow or purple solitary flowers, 2" across, beautifully soft and fluffy; fine for both border or cutting; HA; spac 12"; C-1.
 —The Bride. CENT-45D. 25¢
 Pure white; 2 ft.
 —suaveolens. CENT-45S. 25¢
 (odorata) The yellow Sweet Sultan; 2½ ft ½ Oz. 75¢.
 —Blue. CENT-45B. 25¢
 —Pink. CENT-45P. 25¢
 —purpurea. CENT-45R. 25¢
 —rosea. CENT-45Z. 25¢
 —White. CENT-45W. 25¢
 —Blend of Above. CENT-45X. 15¢
 ...Any of above: ¼ Oz. 50¢.

OTHER CENTUREA SPECIES:



CENTAUREA AMERICANA

- americana, Lilac. CENT-7L. 25¢
 Basket-Flower. Thistle-like fls; 4-5" ac;
 HA; 2-4 ft; July-Sept; space 18"; Oz. 75¢.
 —White. CENT-7W. 25¢
 —candidissima: see *C. cineraria*. For Dusty Miller see *Senecio leucostachys*.
 —Cineraria. CENT-14. 25¢
 Dusty Miller. Golden yellow or purple fls; 1 ft; HP; July-Sept; treat as HHA; slow grower; start early; silvery white fol; space 9"; C-8. ¼ Oz. \$1.00.
 —dealbata, Rose Delight. CENT-20Z. 25¢
 Mauve-pink variety; very nice; 2½ ft; HP; C-23. ½ Oz. 70¢.
 —Jacea. CENT-32. 35¢
 Pink-maroon Cornflower; 1½" ac; 2 ft; HP.
 —orientalis, rosea. CENT-51Z. 30¢
 (*C. rigidifolia*) HP; to 3 ft; yellow fl heads; 2½" across.
 —Fritschii. CENT-24. 25¢
 Rose heads, ½" ac; 6 ft; HP.
 —gymnocarpa. CENT-30. 25¢

- Dusty Miller. Lvs densely white, woolly; 24"; HHA; Start in March; June-Sept; fern-lf; sp. 12"; striking bedder. ½ Oz. 80¢.
 —macrocephala. CENT-38. 25¢
 Enormous double golden fls; 3-4 ft; July-August; HP. ½ Oz. 60¢.
 —montana. CENT-44. 25¢
 Mountain Bluet. Brilliant blue fls, 2" ac; June-Sept; 2½ ft; C-23. ½ Oz. 90¢.
 —nigra. CENT-48. 35¢
 (Endressii) Knapweed. Fl-heads rose-purple, 1" ac; 2 ft; HP.
 —odorata v. *Margaritae*. CENT-52. 30¢
 Pure white. ¼ Oz. 80¢.
 —ruthenica. CENT-62. 25¢
 Pale yellow heads, 2" ac; border; 3 ft; HP; C-23 or 24; FG.
 —suaveolens: see *moschata*.
 —stenophylla. CENT-76. 35¢
 Purple fls; 2 ft; HP.
 —Hardy *Centaurea* Blend. CENT-X. 20¢
 Blend of the above species only.

- CENTAURIUM.** (sen-TAW-ree-um)
 Gentianaceae. (*Erythraea*). Grown in the border or RG; not hardy in the N and require protection from sun and frost.
 —scilloides. CENA-6. 50¢
 Bright deep rose fls; HP.
 —umbellatum. CENA-7. 35¢
 Common Centaury. HA or HB herb.

- CENTRANTHUS.** (sen-TRAN-thus)
 Valerianaceae. Annuals and perennials doing well from seed in the open border; have dense terminal clusters; June-July; space 12".
 —macrospion. CENS-2. 35¢
 Showy rose and pink fls; 2 ft; HA; June-July; space 12".
 —alba. CENS-4A. 30¢
 A white flowered variety. Oz. \$1.00.
 —ruber. CENS-4. 25¢
 Red Valeriana, Jupiter's Beard. Fragrant crimson fls; 3 ft; HP; C-23; LK. Oz. \$4.00.

- CEPHALANTHUS.** (sef-al-LAN-thus)
 Rubiaceae. Button-Bush. Small trees and shrubs with showy flower heads; easily grown in moist soils
 —occidentalis. CEPA-1. 50¢
 Creamy fls in long spiked heads; July-Sept.

- CEPHALARIA.** (se-fah-LAY-ri-ah)
 Dipsaceae. Annuals and perennials with Scabiosa-like flowers; useful as border plants and for cutting. Colors creamy white and various yellow shades; June-Aug; ordinary soil.
 —radiata. CEPH-9. 30¢
 Soft vel fls; good; cuts; HP. ½ Oz. 75¢.

- CEPHALOCEREUS.** (sef-ah-loh-SEE-re-us)
 —leucocephalus. CEPC-35. 40¢
 To 17 ft; white fls, 2½" long; Mexico.

- CEPHALOPHYLLUM.**
 —decipiens. CEPL-9. 50¢
 Tufted, clump-shaped with mostly long dotted lvs; fls very large and beautiful; good growers; requires full sun light; grows during winter.

- CEPHALOTAXUS.** (sef-ah-loh-TAK-sus)
 Plum-Yew. Cephalotaxaceae. Ev. trs and shr, native of Asia; hardy in (IV) zone; similar to *Taxus*.
 —drupacea: see *Harringtonii*.

- fortunei*. CEPX-5. 35¢
45 seeds to ounce; Oz. 80¢.
—*Harringtonii* v. *drupacea*. CEPX-6D. 30¢
Tree to 30 ft; 45 seeds to oz; Japan. Oz.
75¢; lb. \$2.50.

CERASTIUM

- Caryophyllaceae. Mouse-Ear. Excellent RG or edging plants; easily grown in ordinary soil. Usually mat-forming; lvs silvery and showy star-like flowers in May and June.
—*alpinum* v. *lanatum*. CERS-1L. 35¢
Fine cushion RG pl; silvery lvs; white flowers; HP.
—*Biebersteinii*. CERS-4. 30¢
Creeping; 6"; white; May-June; HP; C-23.
1/2 Oz. 40¢.
—*candidissimum*. CERS-9. 50¢
—*diurnum*. CERS-12. 30¢
Day-Jassamine; shrub to 15 ft; (VII).
—*glomeratum*. CERS-14. 50¢
—*tomentosum*. CERS-26. 25¢
Snow-in-Summer. Creeper; silvery fol; white fls; RG; HP; this may be weedy in the South; C-23. 1/2 Oz. 70¢.
—*uniflorum*. CERS-28. 30¢
White fls 1/2" ac; in cymes; 3 inches; HP.

CERATOSTIGMA. (ser-ah-toh-STIG-ma).

- Plumbaginaceae. Nice border plants and shrubs blooming late into the fall; half hardy perennials with shining leaves; flowers saucer-shaped, blue and rose.
—*Griffithii*. CERA-1. 30¢
Low shrubs; blue fls; India; hot dry localities; 3-4 ft; HHP.
—*Willmotianum*. CERA-3. 25¢
A very beautiful sh from China; dwarf round compact, producing many heads of deep blue fls; July-Aug; 5 ft; HHS.

CERATONIA. (see-ah-TOH-ri-ah)

- Leguminosae. Ev. tr to 50 ft; fruits edible.
—*Siliqua*. CERQ-1. 25¢
Carob. St. John's-Bread. Stands few degrees frost; grow as orange trees; (X). Oz. 90¢; lb. \$3.00.

CERATOPETALUM.

- Cunoniaceae. Resinous trs native of Aust; grown in GH or in far South.
—*gummiferum*. CERP-5. 40¢
Sydney Christmas Bush. Pale lemon fls; showy sh over long period; acid soil; want stand frost. Oz. \$1.00.

CERCIDIPHYLLUM. (ser-sid-i-FIL-um)

- Katsura-tree. One deciduous tr. to 100 ft; Japan.
—*japonicum*. CERM-1. 35¢
Fast growing ornamental tr; 25-40 ft; lvs purplish in sp. turning to gold and scarlet in fall; rich moist soil. Oz. 90¢.

CERCIS. (SER-siss)

- Leguminosae. Judus-Tree. Small trees and shrubs, noted for their early spring flowers which appear before the leaves; thrive in a fertile sandy loam; sow seeds in spring over heat; for better germination try filing a notch in the seed coat; species best from seed sown over heat in Feb-March.
—*canadensis*. CERC-1. 40¢
Pretty tree to 40 ft; rosy pink fls before leaves in spring; (IV); Lb. \$10.00.
—*chinensis*. CERC-2. 50¢
Tree to 50 ft; purplish pink fls; China. Lb. \$3.75.
—*occidentalis*. CERC-4. 40¢

- Shrub to 15 ft; Calif. Oz. 75¢; lb. \$4.00.
—*reniformis*. CER-7. 40¢
Texas Red Bud. Sh or tr, 40 ft; reddish fls, 1/2" long, in clusters; Texas.
—*Siliquastrum*. CERC-9. 50¢
Sh or tr to 40 ft; purplish rose fls in clusters. Oz. 60¢; lb. \$1.50.
—*alba*. CERC-9A. 50¢
A white flowered variety. Oz. 60¢; lb. \$1.50.

CERCOCARPUS. (ser-koh-KARP-us)

- Mountain-Mahogany. Rosaceae. Trs of W. N. Am; can be planted as shrubbery; does well in dry soils.
—*ledifolius*. CERP-5. 25¢
40 ft; Wash. c.s. Oz. \$3.00.

CEREUS.

- (SEER-ee-us) Good beginner species.
—*Pitahaya*: see *C. variabilis*.
—*peruvianus monstrosus*. CERE-29M. 35¢
Columnar species, much like *C. azureus*.
—*peruvianus*. CERE-29. 50¢
Fls 6" long; red or brownish, inner white.

CERINTHE. (se-RIN-thee)

- Honeywort. Boraginaceae. Easily cultivated Herb belong to Borage Family.
—*major*. CERI-2. 40¢
Good bee plant; germ-7 days; 1 ft; purplish fls; showy; Medit.

CEROPTERIS: see Pityrogramma.

CESTRUM. (SES-trum)

- Solanaceae. Warm regions; trs and shs; popular GH plants; flowering Jan-Apr.
—*auranticum*. CEST-1. 40¢
Semi-climbing sh; orange-yellow fls in terminal panicles; Guatemala.
—*purpureum*. CEST-12. 50¢
Sh to 10 ft; fls in loose terminal clusters red-purple; red berries; (X).

CHAENACTIS. (kee-NAK-tis).

- Compositae. Shrubs and trees from tropical regions and grown in the GH in the N. They make attractive winter plants with their bright flowers.
—*Douglasii*. CHAE-1. 25¢
Bride's Bouquet. White fls! 1-2 ft; June-July; HB.

CHAENOMELES. (kee-NOM-el-ezz)

- Rosaceae. Flowering Quince. Very pretty early flowering shrubs most of which are hardy in zone IV; stratify seeds and sow in the spring.
—*Burkeana*. CHNO-2. 30¢
Small sh; 5 ft; very good; small white fls; S. Af; (IX).
—*japonica*. CHNO-1. 30¢
Dwarf Jap. Q. 3 ft; orange-scarlet fls.
—*lagenaria*. CHNO-2X. 30¢
Jap. Q. 10 ft; scarlet-red fls; China.
—*sinensis*. CHNO-8. 50¢
Chinese Tree Quince. 20 ft; light pink fls, 1 1/2" ac; China. Oz. \$1.00.

CHAENORRHINUM.

- Scrophulariaceae. Genus of annuals and perennials, formerly in Linaria; native of the Medit. regions.
—*organifolium*. CHAN-3. 50¢
Pale purple to white fls with yellow palate; similar to Snapdragons; 10"; HP.

We will issue abooklet on the culture of the Giant Japanese Ipomoeas soon.

CHAMAECYPARIS. (kam-ee-SIP-ar-iss)

Cupressaceae. False-Cypress. Large evergreen trees grown for ornament, nearly all of which are hardy in the N; grow same as confers, best sown in spring.

—**Lawsoniana.** CHAM-2. 50¢
Handsome ev. gr. tr; to 100 ft; cool deep moist soil; no good in dry sections; very beautiful. Oz. 90¢; lb. \$3.75.

—**allionii.** CHAM-2A. 50¢
10-20 ft; beautiful pyramidal shape; richest blue-gray foliage.

—**argentea.** CHAM-2R. 30¢

—**aurea.** CHAM-2U. 30¢

—**variegata.** CHAM-2UV. 30¢

—**erecta.** CHAM-2E. 30¢

Upright Lawson Cypress. Narrow var-

—**glauca pendula.** CHAM-2GP. 30¢

—**pyramidalis.** CHAM-2P. 30¢

—**Triomphe de Boskoop.** CHAM-2T. 30¢

Excellent variety; 10-20 ft; steel-blue fol.

—**nootkaensis.** CHAM-4. 30¢

Oz. 50¢; lb. \$5.00.

—**obtus.** CHAM-5. 30¢

This and all varieties, except as noted:

Oz. 50¢; lb. \$5.00.

—**aurea.** CHAM-5A. 30¢

Golden yellow leaves when young. Oz. 80¢

—**lycopodioides.** CHAM-5L. 30¢

—**crispa.** CHAM-5C. 30¢

—**Ketteleri.** CHAM-5K. 30¢

—**pisifera.** CHAM-6. 30¢

Sawara C. Japan; hardy up to (IV); several varieties. Oz. 60¢; lb. \$5.00.

—**filifera.** CHAM-6F. 30¢

—**plumosa.** CHAM-6P. 30¢

Oz. 50¢; lb. \$5.00.

—**squarrosa.** CHAM-6S. 30¢

Oz. 75¢; lb. \$7.50.

CHAMAEDOREA elegans; see *Collinia* el.

CHAMAELAUCIUM. (kam-ee-LAU-see-um)

Myrtaceae. Australian Heath-like shrubs with fls in terminal racemes; hardy in (X) from Australia; sow in sandy soil in spring or summer in open, with glass a few inches above seed bed; dry heating for 2 hours at 175 deg. F has also proved effective; transplant early as roots are very brittle; cover seed with 3.8" soil or saw dust.

—**uncinatum.** CHAW-3. 25¢

Lovely fol. and beautiful blooms combining to make this outstanding; want stand wet feet or over manuring; cut back hard after flowering; pink fls; excellent for cut-fls; 8 ft sh; new crop seed Feb; W. A.

—**Red.** CHAW-3R. 30¢

—**Pink.** CHAW-3P. 30¢

CHAMAEPSEUSE: see *Cirsium* *Dianthi*.

CHAMAEROPS. (kam-MEE-rops)

Palmaceae. One low bushy fan-palm of Medit. regions; GH; much planted for a small hardy palm.

—**excelsia:** see *Trachycarpus* *Fortunei*.

—**humilis.** CHAO-2. 50¢

3-5 ft high; (VI). Oz. \$1.00; lb. \$2.50.

25 seeds in an ounce.

ity, to 40 ft; good tub conifer.

CHAMOMILE: see *Anthemis* *nobilis*.

Both the single and double and *Matricaria* Chamomile are the plants of importance.

CHARIES. (kay-ry-EE-is)

Compositae. One S. Af. plant, grown in the border or GH.

—**heterophylla.** CHAR-1. 40¢

(C. *Neesii*, *Kaulfussia* *amelloides*). Rays

blue, disks yellow and blue; very showy and easy; 1 ft; HHA.

CHASMANTHE.

Iridaceae. S. Af. natives similar to *Antholyza* and *Gladiolus*; grow same as latter.

—**aethiopica.** CHAS-2. 50¢

(*Antholyza* *aethiopica*). Tall Irid; fls stems black-purple; fls orange-red, tubular; cultivate like *gladiolus*; 2½ ft.

—**floribunda.** CHAS-5. 35¢

This has broader leaves.

CHEILANTHES.

Lady-Fern.

—**farnosa** v. **chrysophylla.** CHEF-5. 50¢

Golden Fern.

CHELIDONIUM. (kel-ID-DOH-nee-um)

Papaveraceae. Celandine. Grown in wild gardens; used as a garden herb.

—**majus.** CHEL-1. 30¢

Yellow fls, ½ inch across; 4 ft; HP.

—**Double Form.** CHEL-1D. 40¢

CHEIRANTHUS

Cruciferae. Perennials many of which rank amongst the showiest flowers. The Wallflowers belong to this genus, under *C. Cheiri*. There are some interesting possibilities in this genus as it hybridizes with *Erysimum*. The Siberian Wallflower comes under the latter genus now. Treat as HA in the North. (kye-RANTH-us)

CHEIRI: Wallflower. Sow seed as early in the spring as possible that a strong, robust plant will be grown as success in growing them depends much on a strong plant; weakly grown plants are sure to die. They are cool weather plants; treat as biennials; C-15.

—**Black-Brown.** CHER-1BB. 25¢

—**Belvoir Castle.** CHER-1BC. 25¢

—**Cloth of Gold.** CHER-1C. 20¢

Rich yellow; lge fl; 18"; popular.

—**Covent Garden.** CHER-1CG. 20¢

Blood-red flowers; popular.

—**Fireball.** CHER-1B. 20¢

New Swiss variety; fiery red.

—**Fire King.** CHER-1F. 20¢

Brilliant Orange.

—**Golden Goliath.** CHER-1G. 20¢

Dandy forcing variety; dark maroon.

—**Golden Yellow.** CHER-1GY. 25¢

—**Dwarf Golden Yellow.** CHER-DY. 25¢

—**Goliath.** CHER-1L. 20¢

Very beautiful single in maroon.

—**Golden Mascot.** CHER-1GM. 20¢

Rich golden flowers.

—**Golden Monarch.** CHER-1D. 20¢

A rich yellow counterpart of *Vulcan*; 12".

—**Ivory White.** CHER-1E. 20¢

Nearest to a pure white; 18".

—**Orange Bedder.** CHER-1N. 20¢

Rich orange shading to apricot-yellow; 1".

—**Primrose.** CHER-1P. 25¢

—**Ruby Gem.** CHER-1R. 20¢

Very large and fine ruby-violet; 18 in.

—**Scarlet Emperor.** CHER-1M. 20¢

The best scarlet variety.

—**Vesuvius.** CHER-1V. 25¢

—**Vulcan Improved.** CHER-1U. 20¢

Rich velvety crimson; 1 ft; choice strain.

—**Blend of Above.** CHER-1X. 20¢

—**Dwarf Double Mixed.** CHER-1DX. 20¢

—**Earliest Paris Mixed.** CHER-2PX. 25¢

Treat these as annuals; very early type.

—**Golden.** CHER-2PG. 25¢

Earliest Paris yellow.

- Early Wonder. CHER-2W. 25¢
- Golden Standard. CHER-2GS. 25¢
- An Early Wonder type in yellow.
- Early Wonder Mixed. CHER-2WX. 25¢
- Tall Double Mixed. CHER-1TX. 20¢
- Oz. 50¢; lb. \$2.75.
- Berlin Fireball. CHER-1BF. 25¢
- Early Forcing Mixed. CHER-2F. 25¢
- Single annuals.
- All Above: Oz. 80¢.

EARLY PARIS:

- Very early type; treat as annuals.
- Black-brown. CHER-2PB. 30¢
- Blood-red. CHER-2PR. 30¢
- Golden Yellow. CHER-2PY. 30¢
- White. CHER-2PW. 25¢
- Mixed. CHER-PX. 25¢
- Above: Oz. \$1.00; lb. \$8.50.

ANNUAL WALLFLOWERS: This strain will flower the first season if started indoors.

- Golden. CHER-2G. 25¢

CHEIRANTHUS SPECIES:

- alpinus. CHER-5. 40¢
- Lemon-yellow fls; Norway; 1 ft; HP.
- allioni: see *Erysimum asperum*.
- kewensis. CHER-7. 30¢
- Bushy perennial; fls 1" ac; upright racemes; orange; HHP.
- linifolius: see *Erysimum linifolium*.
- maritimus: see *Virginia Stocks*.

STOCKS: see *Malcolmia*.

CHEIRIDOPSIS.

- Nearly stemless, highly succulent plants; most of them grow during winter.
- brevis. CHED-6. 50¢
- candidissima. CHED-8. 50¢
- White or pale pink fls, 2" ac.
- Comptonii. CHED-16. 50¢
- Duplessiae. CHED-19. 50¢
- Euprea. CHED-20. 50¢
- Peculiaris. CHED-35. 50¢
- Yellow flowers, 2%" across.
- Pillansii. CHED-40. 50¢
- Cream colored, white near base, 3" ac.

CHELIDONIUM. (kel-id-DOH-nee-um)

- Celandine. Papaveraceae. A weedy biennial or perennial grown in the wild garden. ..
- major. CHEL-1. 25¢
- 4 ft; yellow fls 2/3" ac in small umbels.

CHELONE: see *Penstemon barbatus*.

CHENOPODIUM. (kee-noh-POH-dee-um)

- Chenopodiaceae. Few species grown as garden herbs or ornamental plants; easy.
- album. CHEN-1. 40¢
- Of botanical interest.
- amaranticolor. CHEN-1. 25¢
- Amaranthus-red spotted lvs. 1/4 Oz. 50¢.
- Botrys. CHEN-6. 30¢
- Feather Geranium, Jerusalem-Oak. HA;
- 2 ft; attractive; can be dried.
- Bonus-Henricus. CHEN-10. 30¢
- A most nourishing perennial vegetable that grows in good soil producing a profusion of lvs, which are cooked like Spinach. It self sows; seed is slow to germinate; (Good-King-Henry). Oz. 60¢.

CHERVIL: see *Anthriscus cerefolium*.

CHICORY: see *Cichorium Intybas*.

CHILOPSIS. (ky-LOP-sis)

- Bignoniaceae. 20 ft. sh or sm tr; dry regions; Texas.
- linearis. CHIL-1. 40¢
- Desert or Flowering Willow. Trumpet-

shaped fls; lilac.

CHIMONANTHUS. (kye-moh-NANTH-us)

- Calycanthaceae. Two shs from China; sow in the spring; (V).
- praecox. CHIM-4. 35¢
- (Calycanthus and Meratia) 10 ft fragrant fls, 1" ac, striped brown. Oz. 75¢; lb. \$6.00.
- 125 seeds per ounce.
- grandiflorus. CHIM-4G. 40¢
- Same but larger in both leaves and flowers. Oz. 70¢; lb \$7.00.

CHIMOPHILA.)

- Pyrolaceae. Pipsissewa. Ev. plants grown in the wild garden; prefers shade.
- umbellata v. *cisatlantica*. CHIP-8C. 50¢
- 10 inches; native of E.N. America.

CHIONANTHUS. (kye-oh-NANTH-us)

- Fringe-Tree. Oleaceae. Two trs or shs; hardy in N with protection; sow in fall or sp; stratify for spring planting.
- retusa. CHIN-2. 40¢
- Tr to 20 ft; fls 4"-long panicles; June-July; China. Oz. 85¢.
- virginica. CHIN-8. 30¢
- 30 ft; May-June; (V); best from seed.

CHIONODOXA. (kye-oh-noh-DOX-uh)

- Glory-of-the-Snow. Lilaceae. Early flowering bulbous plants; sun; byulbs are listed in Fall Bulb List.
- Luciliae. CHID-5. 35¢
- Bright blue fls with white centers; 1" ac; 8".
- Lucilic v. *roseum*. CHID-5R. 40¢
- Pink fls; 8".

CHIRITA. (kye-RIT-ah)

- Gesneriaceae. Tropical succulent-like with showy flowers; treat same as Gesnerias.
- lavandulacea. CHIR-3. 50¢
- Attractive greenhouse plant; (X).
- species. CHIR-X. 30¢

CHIRONIA. (ky-RON-ne-ah)

- Gentianaceae. African plants with pink and purple flowers in cymes, hardy up into the VI Zone.
- transvalensis. CHIO-3. 40¢
- Bright pink fls on slender stems; marshy ground; 2 1/2 ft; TA.

CHIVES: see *ALLIUM* 87.

CHLORANTHUS.

- Chloranthaceae. Tropical plants.
- glaber. CHLO-5. 50¢
- (brachystachys) A beautiful dwarf ornamental sh to 2ft; small scarlet and yellow br. in winter; lustrous lvs; good Xmas decorations; shade.

CHORISIA.

- Bombacaceae. Native Calif. and Chile; for dry places; (IX).
- speciosa. CHOR-8. 40¢
- Floss-Silk Tree. Yellowish fls, striped with brown at base, 3" ac; Brazil.

CHORIZEMA. (koh-RIZ-em-uh)

- Leguminosae. Grown out doors in far S or in GH in N; requires plenty of sun.
- cordatum. CHOZ-3. 40¢
- 10 ft. sh; abundant orange-red or scarlet fls in open racemes; Australia.

We must make a 30¢ charge for Catalog.

CHRYSLIDOCARPUS.

Palmaceae. Feathered Palms. Plume-like arching; rather small in growth.

—*lutescens*.

CHSL-4. 75¢

(areca lut.) 25 ft; much grown as a florist pot plant or out doors in far S; fresh seed in August. 100 seeds \$12.00.

CHRYSANTHEMUM

Compositae. A large genus of annuals and perennials of which there is a very large number of pretty flowers. They can be divided into 5 or 6 classes as listed below.

EDIBLE LEAVED CHRYSANTHEMUM:

SHUNGIKU.

CHRY-SS*. 25¢

Small leaved; widely used in Japan for greens; highly aromatic flavor; its delicious.....Oz. 50¢; lb. \$3.00.

—*Large Leaved*.

CHRY-SL. 25¢

Large leaf form; broad strap-leaf type; slightly indented. Oz. 50¢; lb. 3.00.

C. CARINATUM: Painted Daisy. Very popular hardy annuals; plant 2 ft tall; well branched, flowers 3 inches across and all with a dark eye, surrounded by a narrow yellow ring then a slightly larger scarlet ring followed by a dominant color for the variety; space 12 inches apart; June-Sept; best in sunny locations and excellent for

**MIXED ANNUAL CHRYSANTHEMUMS**

mass effect or for cutting; C-7.

—*atrococcineum*.

CHRY-1A. 20¢

The Sultan. Bright crimson fls.

—*Burridgeanum*.

CHRY-1B. 20¢

Pure white petals zoned brownish red.

—*Cockade*.

CHRY-1K. 20¢

White and crimson with yellow ring.

—*Corona*.

CHRY-1R. 30¢

Full double flowers.

—*Dunnett's Double Hybrids*.

CHRY-1D. 20¢

Double flowered type in various colors.

—*Scarlet*.

CHRY-1DS. 20¢

—*White*.

CHRY-1DW. 20¢

—*Dunnett, Mixed*.

CHRY-IDX. 25¢

Double and semi-double blooms; a very choice German grown strain. ½ Oz. \$-.80.

—*Eclipse*.

CHRY-1E. 20¢

Shading light yellow to apricot, garnet band; yellow zone.

—*leuteum*.

CHRY-1L. 20¢

—*Northern Star*.

CHRY-1N. 20¢

White with dark eye; popular.

—*purpureum*.

CHRY-1P. 20¢

—*W. E. Gladstone*.

CHRY-1G. 20¢

Large purple red flowers.

—*White Queen*.

CHRY-1Q. 20¢

Pure white with pale yellow zone; 18".

—*Single Mixed*.

CHRY-1SX. 20¢

—*Blend of Varieties*.

CHRY-1X. 15¢

—*Saier's Double Hybrids*.

CHRY-IDX. 35¢

This is the best strain of *C. tricolor* for both the garden or cutting; high percent of doubles in beautiful colors.

Oz. 80¢; 4 Oz. \$2.50.

C. CORONARIUM: Tallest of the hardy annuals and if planted in very rich soil, may need staking. Sow seed as early as possible, usually where plants are to grow, thin to 12 inches apart; plants 2-3 ft; July-Oct; C-7.

—*Golden Glory*.

CHRY-2G. 25¢

A new English single; deep yellow, central disk same; 3 ft.

—*Golden Gem*.

CHRY-2M. 25¢

Dwarf double; try in pots; 1 ft; pretty.

—*Golden Crown*.

CHRY-2C. 25¢

Silvery green fol; butter-yellow fls; 2½ ft. ½ Oz. 40¢.

—*Yellowstone*.

CHRY-2YS. 20¢

Double flowers; golden yellow.

—*Double Yellow*.

CHRY-2Y. 25¢

—*White*.

CHRY-2W. 25¢

—*Sulphur-Yellow*.

CHRY-2S. 20¢

—*Merry Mixture*.

CHRY-2X. 25¢

Contains many of the best and rarer colors without the light yellows; excellent German grown strain. ½ Oz. \$1.80.

Any of above varieties, except as noted. Oz. 75¢; ½ lb. \$2.00.

**CHRYSANTHEMUM—COCKADE**

—*COCKADE*.

CHRY-1K. 30¢

A white, beautifully zoned red, brown and yellow; fine for cutting. ¼ Oz. 60¢.

C. SEGATUM: Plant habit similar to *C. carinatum*; 2 ft tall; flowers are 3" across with dark or light eye surrounded by an inconspicuous pale yellow disk, then the dominant color for the variety; all HA; best to sow seeds direct to garden and as early as possible in the spring; thin to 12 inches C-7.

- /Tetra Comet.**
A new pure yellow.
—**Double Isabel.**
A new white
—**Romeo.**
Golden yellow flowers, double.
—**Gloria.**
Sulphur-yellow; double.
—**Eastern Star.**
Primrose-yellow with a chestnut center;
1 ft. ½ Oz. 40¢.
—**Eldorado.**
Deep yellow with black center; pretty.
—**Golden Glow.**
A new double golden yellow. Oz. \$1.50.
—**Gloria.**
Double yellow flowers.
—**Helios.**
Evening Star. Deep golden yellow.
—**Morning Star.**
Large yellow with black center; 1½ ft.
—**Primrose Gem.**
Cream color with dark centers.
—**Yellowstone.**
A beautiful new double yellow; Oz. \$1.50.
—**Zebra.**
Flowers striped and blotched yellow and brown. Oz. 80¢.
—**Blend of Above Varieties.** CHRY-3X. 20¢
Any above except as noted: Oz 50¢.

C. INDICUM: Perennials; 2-3 ft. tall with soft foliage and much branched; they are very showy in masses, blooming in five months from seed. Flowers are in heads, very numerous and ½-1 inch across; plant either early or in mid-summer for the following summer; C-22.

- Double Special Blend.** CHRY-4DX. 25¢
¼ Oz. \$1.25.
—**Saier's Early Strain.** CHRY-4SX. 25¢
A very choice single strain in bright colors. ¼ Oz. \$1.00.

C. COCCINEUM: Pyrethrum. Fine cut-flowers, especially liked by the florists; flowers are daisy-like. If kept cut will flower into the autumn; flowers 2nd year from seed; space 12 inches HP.

- aurum, Gold Feather.** CHRY-5AF. 25¢
—**Golden Moss.** CHRY-5AM. 25¢
Very dwarf
—**Dark Carmine.** CHRY-5BC. 25¢
—**Golden Gem.** CHRY-5AG. 25¢
—**Giant White.** CHRY-5W. 25¢

—ROBINSON'S GIANTS. CHRY-5B. 30¢

An extra large strain for cut-flowers.
Oz. \$3.00; lb. \$26.00.

- Hybridum atrosnaguinea.** CHRY-5HA. 30¢
—**Robinson's Crimson.** CHRY-5RC. 30-30¢
—**Rose.** CHRY-5Z. 25¢
—**Pink.** CHRY-5P. 25¢
All the above are Pyrethrums; C-8.
—**James Kelway.** CHRY-5K. 25¢
—**Langport Scarlet.** CHRY-5L. 25¢
—**roseum.** CHRY-5R. 25¢
Single and doubles; extra fine strain.
—**Market Strain.** CHRY-5M. 25¢
Double strain for commercial growing.
—**Prize Doubles.** CHRY-5DX. 25¢
—**Single Blend.** CHRY-5SX. 25¢

SAIER'S EXTRA DOUBLE. CHRY-5S. 40¢

An unsurpassed strain producing about 80% large flowered fully double types; very special. ½ Oz. \$3.00.

C. MAXIMUM: Shasta Daisy. Has larger flowers than *C. Leucanthemum*. In the newer varieties, the flowers are as large as 4 inches across, some double and fringed. They make the best of cut-flowers and where choice flowers are wanted, the flowering stems should be thinned. Rich soil and full sun; for GH sow Jan. 1; HP; C-23.
—**Alaska.** CHRY-6A. 20¢
—**Antwerp Star.** CHRY-6AS. 25¢
—**Chigwell Giant.** CHRY-6C. 25¢
—**Conqueror.** CHRY-6Q. 20¢
Stems 2½ ft long; large pure white.
—**Diener's Double White.** CHRY-6DW. 25¢



NEW JAPANESE CHRYSANTHEMUMS

- ½ Oz. \$1.00.
—**Exhibition.** CHRY-6E. 25¢
—**Fringed Beauty.** CHRY-6F. 25¢
Fringed and curled petals.
—**King Edward.** CHRY-6K. 25¢
garden and border. Oz. \$1.00.
—**Galathaea.** CHRY-6G. 30¢
—**May Queen.** CHRP-6M. 25¢
Medium sized, good for massing in the garden or border.
—**Mont Blanc.** CHRY-6MB. 20¢
Extremely large white flowers.
—**Perfection.** CHRY-6R. 30¢
—**Polar Sea.** CHRY-6P. 20¢
—**Rhine View.** CHRY-6RV. 30¢
—**The Speaker.** CHRY-6K. 25¢
—**White Dame.** CHRY-6W. 20¢
—**Shasta Blend.** CHRY-6X. 20¢
Any above, except as noted: Oz. 80¢.

SHUNGIKU: Aromatic greens.

This is one of the most important oriental greens belonging to the chrysanthemum family; highly valued for its aromatic flavor; cut when 4-5" high and cook like Spinach; easy to grow. Pkt. 25¢; ½ Oz. 50¢.
—**Small Leaf Strain.** CHRY-SS. 25¢
—**Long Leaf Strain.** CHRY-SL. 25¢

C. INODORUM: see *Matricaria inodora*.

OTHER CHRYSANTHEMUM SPECIES:

The perennial Chrysanthemums are short day bloomers; they seem to be more affected by length of night, too short a night prevents plants from blooming. Lights will affect the flowering if used at mid-night for an hour. The hardy species respond to freezing and best results obtain-

ed if sown in winter or very early springs.

—**arcticum.** CHRY-4. 40¢
Aster-like fls; white to lilac; Arctic regions; 6 inches; HP.

—**Balsamita.** CHRY-6. 30¢
Costmary, Alecost. An old-fashioned herb; yellow daisy-like fls; 2-3 ft; young lvs can be used in salads; sun; HP.

—**cineraria:** see **Senecio cineraria** and **S. leucostachy.** Dusty Miller.

—**clouetæaeolium.** CHRY-14. 25¢
Dalmatian Chrysanthemum. (Pyrethrum roseum) Insect powder plant; 1-2 ft; fl-heads, 1" ac, white; HP. ¾ Oz. \$2.00.

—**corymbosum.** CHRY-19. 25¢
(Pyrethrum) White fls; border; 2-4 ft; HP.

—**deasum.** CHRY-20. 50¢
—**Korean Hybrids.** CHRY-22K. 25¢
Saved from best varieties; C-9. ¼ Oz. \$2.50.

—**Anemone Flowered** CHRY-22AF. 50¢
A new Japanese strain; very choice. it comes in many different types.

—**Arctic Hybrids.** CHRY-22A. 25¢
Arctic Bellies. Single; very hardy; HP.

Growing Japonicum Chrysanthemums.

Indoors sow seed anytime between Sept to June. Sow in pots or pans in protected frame; seeds are small so water from below; germ. 2-3 wks; transplant to flats or frame; can be grown in open frame after frost; the large types, incurved and spider types must be disbudded; the smaller types not necessary but better fls if disbudded some.

—**japonicum.** CHRY-27. 35¢
Double Anemone-flowered. Mixed.

—**Cascade.** CHRY-27C. 50¢
A lovely variety of hanging Japanese C; they are very nice; C-22.

—**Double Anemone-fl'd.** Mixed. CHRY-27A. 50¢
Extra choice blend from Japan.

—**Tubular Petals.** Mixed. CHRY-27T. 50¢
The long thin tubular petalled type.

—**All Types Blend.** CHRY-32JK. \$1.00
Plant seed up to March or April; will bloom same year. This is the best strain obtainable and will produce a wonderful display of incurved, spider, anemone-fl and pom poms, all in double fls. Pkt. contains 100 seeds.

—**macrophyllum.** CHRY-28. 30¢
Tansy C. Small white or yellow rays; 2½ ft; HP.

—**Mawil.** CHRY-29. 30¢
White ray fls, rose on back; 1 ft; for a sheltered sunny place; HHP; C-23.

—**multicaule.** CHRY-33. 35¢
Pure yellow colored flowers.

—**Nivellei.** CHRY-35. 35¢
Erect HA; 1 ft; rays white; free flowering; golden yellow; long stems; July-Sept; space 12"; single. Oz. 50¢.

—**Parthenium.** CHRY-37. 25¢
Feverfew. Perennial; fl-heads in open clusters. They are used in the border and are nice for cutting; C-8; LW.
from seed; space 12"; HP; for GH sow Jan first.

—**Snowball.** CHRY-37SB. 50¢
Dwarf compact plants; double white fls

—**Golden Ball.** CHRY-37GB. 50¢
Same in golden yellow flowers.

—**aureum.** CHRY-37A. 25¢
—**crispum.** CHRY-37C. 25¢

Golden Moss. Very dwarf with curled Parsley-like foliage.

—**seaginkoides.** CHRY-37S. 30¢
Finely cut golden foliage.

—**alba plenissima.** CHRY-37A. 25¢
Single fls; excellent. ½ Oz. 60¢.

—**Double White.** CHRY-37D. 30¢
Very popular for cut flowers. ½ Oz. \$2.00.

—**Double Rose.** CHRY-37DZ. 30¢
Semi-double fls. ½ Oz. \$2.00.

Very popular as cut fls. ½ Oz. \$2.00.

—**Single and double; Japanese seed.** CHRY-SX. 25¢

CHRYSOPSIS. (kris-OP-sis)

Compositae. Golden Aster. Daisy-like yellow heads of ray or disk flowers on 1-3 foot plants, thriving in a dry sunny part of the border; HP.

—**amplifolia.** CHSO-1. 50¢
Grows to 20 inches; Colo; HP.

—**falcata.** CHSO-2. 35¢
1 ft; woolly lvs; fl-heads ½" ac in corymbs; HP.

—**mariana.** CHSO-8. 30¢
Golden Aster. Flower heads 1" ac in panicle corymbs; 2 ft; (IV); HP.

—**villosa.** CHSO-10. 25¢
Golden Aster. Heads 2 inches ac; golden yellow; 1 ft; HP.

—**MULTIFLORA NANA.** CIN-2. 75¢
A remarkable class of dwarf compact plants covered with a mass of medium size flowers. They come in a rich variety of colors, many having gold centers. A fine pot plant. PKT. 75¢; -/32 Oz. \$2.50.

CINERARIA

Compositae. Botanically *Senecio Cruentus*. Listed here are only the greenhouse type grown as pot plants. Sow from April to September, May and June being the main months; (C-8).

A popular and inexpensive spring plant; requires about 20 weeks to bloom; seed sown in July to Sept will give good spring plants; germ. 3 wks; sterilize pots and soil;

—**Prie Exhibition.** CIN-5. \$1.00
Extra good Holland strain; large flowers. 1/32 Oz. \$2.00.

—**Blend.** CIN-X. 50¢
A blend of the above strains

BENARY STRAIN CINERARIAS

I offer the famous German grown strain of Ernest Benery, long known as the leading florist strain. Plant only the best.

—**American Market Strain.** CIN-1A. 50¢
Largest heads of medium sized flowers; choice colors. 1/16 Oz. \$1.50.

—**Siter's Rainbow Strain.** CIN-4. \$1.00
Small leaved. early type; immense flower heads of medium large, bright eyed blooms. 1/16 Oz. \$4.00.

—**Cremers Prize Strain.** CIN-1. \$1.00
A more dwarf and compact type than the Siter's strain; especially recommended for florist trade; bright color range. 1/16 Oz. \$4.00.

—**Berlin Market.** CIN-2B. \$1.00
Full heads of medium sized flowers in a rich color range; perfect market plants. This strain is much improved and can be had in dark blue, dark crimson, Corn-flower blue, crimson, rose, white or dark purple-velvet as well as mixed. Packets contain 1,000 seeds for \$1.50.

—**Benery's Dwarf Erfurt.** CIN-BE. \$1.00
Only 8" tall and 10-12" across heads; for small pots; dense, high vaulted flower-heads of medium sized flowers. 1/16 Oz. \$4.00.

—**Matador.** CIN-BM. 75¢

- Deep copper-scarlet. 1/16 Oz. \$2.50.
 —**Pandora.** CIN-BP. 75¢
 Rosy red; showy color. 1/16 Oz. \$2.50.
 —**Benary's Mammoth.** CIN-6M. \$1.00
 NEW. Exhibition Strain. Extraordinary
 sized flowers up to 4-5 inches across. 1/32
 Oz. \$5.00.
 —**Benery's Maxima Nana.** CIN-6N. \$1.00
 Large flowered; dwarf plants; Benery's
 true strain; all prize varieties included.
 1/32 Oz. \$4.00.

CHRYSOETHAMNUS. (chiss-oh-THAM-nus)
 Compositae. Low shrubs of W. N. Am.
 growing in dry locations; flowers in heads of
 yellow disk.

- gravelens.** CHRH-1. 35¢
 Grayish bush; short spikes; 5 ft; HSh (II).

CIBOTIUM. (sib-BOH-tee-um)
 Dicksoniaceae. Tree ferns usually grown in
 the GH in its juvenile form.

- Schiederi.** CIBO-6. 50¢
 To 15 ft; fronds 5 ft long; very nice;
 Mexico.

CICHORIUM.
 —**Magdeburg.** CHIC-5M. 25¢
 Oz. 50¢; lb. \$2.00.
 —**Witloof.** CHIC-5W. 25¢

CIMICIFUGA. (sim-iss-SIFF-yew-guh)
 Bugbane. Ranunculaceae. Erect, tall herb.
 perennials, usually found in shady rich
 woods; related to Actaea.

- foetida.** CIMI-8. 30¢
 —**racemosa.** Plants Only.
 Cohosh Bugbane. Decid; 4-8 ft; white fls
 in long wand-like racemes; very showy;
 June-July; moist shade. PLANTS: 75¢ each;
 3 for \$1.60.

CINCHONA.
 Rubiaceae. Peruvian Bark Tree. Sh and trs
 of the Andes; quinine tree can be grown in
 the GH; IX.
 —**calisaya v. hedgeiana.** ½ CINC-1H. 50¢
 Tall tree; whitish or rose fls; Bolivia.
 —**succubra.** ¼ CINC-13. 50¢
 Tall tree; rose fls; Ecuador.

CINNAMOMUM. (sim-ah-MOH-mum)
 Lauraceae. Aromatic shs or trs native of
 Asia and Australia; not hardy above (X)
 zone; transplant seedlings to pots before
 setting to permanent locations.

- Camphora.** CINN-2. 40¢
 Camphor Tree. Makes a good street tree
 in far South; 250 seeds to oz; 40 ft. Oz. 90¢.
 —**glanduliferum.** CINN-8. 30¢
 Himalayan tree; fls in panicles, 2" long;
 good ree for far South.
 —**Laureiri.** CINN-10. 50¢
 Cassia-flowered Tree, Aromatic Bark.
 Medium sized tr; 40 seeds to oz; Japan.

CIRSIIUM. (SUR-si-um)
 Compositae. Plumed Thistle. Rank growing
 prickly plants with purple, yellow and white
 flowers in heads; easily grown; for bold
 effect in the wild garden.

- Diacantha.** CIRS-3. 35¢
 (Chamaepense d.) Fishbone Thistle. HB;
 3 ft purplish fl-heads.
 —**occidentale.** CIRS-13. 30¢
 Silvery fol; scarlet fls, pretty; 2 ft; HB.
 —**candidissima.** CIRS-13C. 30¢
 White tomentosa folage; 2-4 ft; HB.

CISSUS. (SIS-us)
 Vitaceae. Mostly tendril-climbing shrubs;
 GH in N and outside in S.
 —**antarctica.** CISS-5. 40¢
 (Vitis) Australia; tendril-climbing sh;
 probably hardy in (X).
 —**Juttae.** CISS-23. 50¢

CISTUS. (SISS-tus)
 Cistaceae. Rock Rose. Not hardy in the
 far N; best in full sun, dry light soil with
 lime present; the flowers are much like min-
 iature Roses; can be started in pots, do not
 prune much; best sown in sp; germ. readily;
 seedlings inclined to damp-off.

- ladaniferus.** CIST-10. 30¢
 Gum C. Pretty shrub with white flowers
 spotted purple; good in rocky ground or
 stony banks or dry soils; 3 ft; HSh.
 —**purpurea.** CIST-17. 30¢
 Purple fls, yellow at base, 3" ac; hybrid;
 (VIII).

CITRUS.
 —**aurantifolia.** CITR-1. 30¢
 Florida Lime.
 —**maxima.** CITR-18. 50¢
 Shaddock or Pomelo. Very large fr. pink
 flesh; of ornamental use in far S; seeds
 available in Nov-Jan.
 —**trifoliata:** see *Poncirus*.

CLADANTHUS. (klad-ANTH-us)
 —**arabicus.** CLAD-2. 30¢
 Palm Spring Daisy. Golden yellow daisy
 like fls; easy; very floriferous; dry places;
 2 ft; HA.

CLADRASTIS. (klad-RAST iss)
 Yellow-Wood. Leguminosea. Trs native of
 N. Am. and E. Asia; fls in panicked racemes;
 ornamental; plant seed in spring, best.

- amurensis:** see *Maachia amurensis*.
 —**platycarpa.** CLAS-5. 30¢
 Tr to 50 ft; fls white with yellow spots
 at base; Japan. Oz. 60¢; lb. \$3.00.
 —**lutea.** CLAS-2. 40¢
 Fragrant fls, 1" long; June; (IV); plant
 in the spring; (*Virgilia lutea*).

CLARKIA

Onagraceae. Annuals easily grown in a
 sunny place, light soil. They make pretty
 border plants, 2-3 ft. high, in upright bush
 form, blooming in July-August; space 1 ft;
 apart; HA; germinates 9-20 days.

They are one of the best annual flowers.
 Very easily grown and germinates quickly
 doing well in most all types of soil. The
 color range is very large; both species can
 be planted in the fall in the South.

C. ELEGANS. This is the best species and
 contains the best colors; grow the doubles;
 give a rich soil and some support and they
 will produce wonders. These are also ex-
 cellent for the cool greenhouse.

- Brilliant.** CLAR-1B. 20¢
 Double; brilliant orange.
 —**Enchantress.** CLAR-1E. 20¢
 Double; salmon-pink; large and pretty.
 —**Firebrand.** CLAR-1F. 20¢
 Brilliant copper-scarlet.
 —**Gloriosa.** CLAR-1G. 20¢
 Distinct break in color; bright crimson.
 —**May Blossom.** CLAR-1M. 20¢
 Pure glowing orange; double.
 —**Illumination.** CLAR-1L. 20¢

- Orange mingled with rose; outstanding.
 —Orange King. CLAR-1K. 20¢
 Bright orange-scarlet; best orange.
 —Purple Prince. CLAR-IP. 20¢
 Very double in rich purple.
 —Salmon Queen. CLAR-1S. 20¢
 Best double salmon-rose.
 —Vesuvius. CLAR-IV. 20¢
 Glowing orange-scarlet; 2 ft.
 —White Prince. CLAR-1W. 20¢
 Best double pure white.
 —Novelty Blend. CLAR-1X. 20¢
 ½ Oz. 40¢.

C. PULCELLA: Grows 18 inches high and comes in many different colors; fine for the border; HA; July-Sept; C-2.

- White Beauty. CLAR-4W. 25¢
 NEW. Charmingly frilled double fls carried in clusters at top of plant; excellent for both border or potting; 2 ft; HA.
 —Single Mixed. CLAR-4SX. 20¢
 —Double Mixed. CLAR-4DX. 20¢
 —Double and Single Mixed. CLAR-4X. 20¢

CLARY: see *Salvia sclarea*.

CLEISTOCACTUS.

Cactaceae. Slender S. Amer. Cacti; orange flowers.

- Herzogianus. CLEI-8. 50¢
 Tree-like; 7 ft; bright red fls, 2" long; Bolivia.
 —Hyalacanthus. CLEI-10. 50¢

CLEMATIS

Ranunculaceae. Virgin's Bower. Woody climbing plants thriving in a rich loamy soil on the alkaline side; mulch soil at base of the plants; best results for species obtained when seeds are sown in Feb. (KLEM-ah-tis).

- Baldwinii. CLEM-14. 35¢
 (Viorna) Pine Hyacinth. Erect plant to 18"; fls urn-shaped, purple or pinkish, 1" long; Fla.
 —Buchananiana. CLEM-19. 40¢
 Climbing; fls 3" ac in panicles; Himalayas
 —chrysocoma v. serica. CLEM-24S. 50¢
 (C. Spooneri) 20 ft climber; white or pink flowers 3½ inches across.
 —campaniflora. CLEM-22. 40¢
 —columbianum. CLEM-27. 30¢
 Climbed for woody shade; blooms large delicate powder-blue, airy in effect; seeds germ. readily in the wild but may have to allow a year in garden soils; Mont.
 —crispa. CLEM-29. 25¢
 Bluish purple, nodding; fragrant; June-Sept; 10 ft; Texas. PLANTS: 80¢ each; 3 for \$1.30. See Native Flower List.
 —dioscorefolia v. robusta. CLEM-33R. 50¢
 (paniculata) Oz. 90¢. (name recently changed).
 —Douglasii. CLEM-34. 50¢
 (C. hirsutissima) Erect; 2 ft; flowers tubular, purple inside.
 —Flammula. CLEM-42. 35¢
 15 ft cl; fragrant fls ¾" ac; in panicles; Aug-Oct. ½ Oz. 60¢; lb. \$5.00.
 —foetida. CLEM-45. 40¢
 Climbing; yellowish fragrant fls, ¾" ac; N. Z.
 —fujisanensis. CLEM-49. 35¢
 From Japan.
 —heracleifolia v. stans. CLEM-58S. 35¢
 4 ft erect plant; China.
 —Davidiana. CLEM-58D. 50¢
 Dense clusters deep blue frag. fls; 4 ft; HP.
 —indivisa. CLEM-63. 40¢
 Climbing N. Z. Clematis. White fls, 4" ac

- in spring; should be grown indoors in N.
 —integrifolia. CLEM-65. 50¢
 Erect to 3 ft; blue, urn-shaped fls 2", nodding; HP.
 —koreana. CLEM-70. 50¢
 Prostrate climber; yellow or violet fls.
 —lathyrifolia. CLEM-77. 30¢
 —ligusticifolia. CLEM-80. 30¢
 Vigorous climber; inch wide panicles of white flowers.
 —macropetala. CLEM-81. 50¢
 Profuse bloomer in Spring; found in dry locations; seeds takes as much as 6 mo. to germinate.
 —montana. CLEM-86. 30¢
 25 ft. climber; white fls turning pink, yellow stamens; fragrant.
 —paniculata: see *C. diacoreifolia v. robusta*.
 —patens. CLEM-90. 35¢
 12 ft cl; solitary fls, 6" ac; white to violet; Japan.
 —Pitcheri. CLEM-92. 30¢
 Urn-shape flowers; purple; 1 inch long.
 —pubescens. CLEM-95. 35¢
 W. Australian species; moisture loving; cream fls; similar to *C. aristata*.
 —recta. CLEM-98. 30¢
 An erect plant to 5 ft; white flowers, 1 inch across; fragrant. Oz. 50¢; lb. \$3.00.
 —mandschurica. CLEM-98M. 50¢
 Erect; 5 ft; white flowers 1 inch across; panicles are longer. 1/8 Oz. \$1.25.
 —reticulata. CLEM-102. 40¢
 (Viorna r.) Cl. to 10 ft; fls urn-shaped, yellowish, pale violet inside; July; (V). ¼ Oz. \$1.00.
 —texensis. CLEM-122. 35¢

PLANTS ONLY

Scarlet C. 4-8 ft; scarlet pitcher-shaped fls; very pretty hardy vine. PLANTS: \$1.00 each; 3 for \$2.25.

- Thunbergii. CLEM-112. 30¢
 Climber; flowers 2 inches ac; panicles; Rhodesia.
 —Viorna. CLEM-119. 50¢
 Cl. to 10 ft; urn-shaped fls, reddish purple, 1" long; hardy.
 —Vitalba. CLEM-122. 35¢
 —int This species is commonly used as a stock for grafting other species and varieties; order early when quantity is wanted Oz 90¢; lb. \$2.00.
 —N. Z. Native. CLEM-NZ. 40¢
 Creeper, with small cream fls followed by very attractive seed heads; fine on fences as shelter.
 —virginiana. CLEM-121. 40¢
 Cl. to 20 ft; fls white, 1" ac; Aug-Sept; N Amer; (IV). PLANTS: 50¢ each; 3-\$1.35.
 —Viticella. CLEM-123. 50¢
 Climber to 12 ft; blue flowers with yellow stamens; fls 2" ac. Oz. 50¢; lb. \$1.50.
 —Clematis Mixture. CLEM-X. 25¢

CLEMATOPSIS.

(klem-ah-TOP-sis)

Seeds offered come from South Rhodesia; the plants drought-resistant; full sun.

- Stanleyii. CLTP-1. 40¢
 Shock-Headed-Peter. Drooping white anemone-like flowers; 4-5 ft.

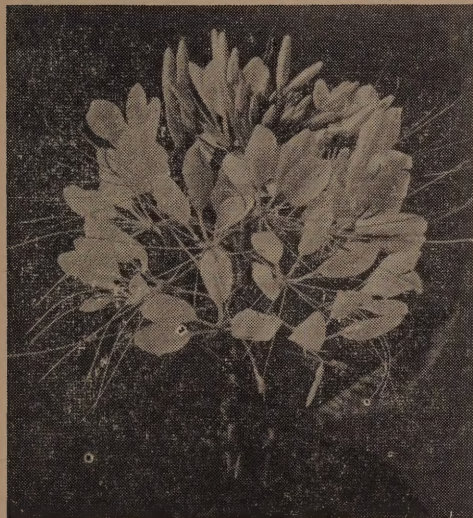
CLEOME

Capparidaceae, Spike Flower. Easily grown from seed in May; germinates quickly; thin plants to 18-24 inches. They are 4-5 ft. high and make showy plants in the border, flowering from June till frost; HHA: (C-7).

C. SPINOSA: (C. gigantea and pungens) Spider Flower. HHA; July-Sept; 3-4 ft; space 18" apart; C-7.

- Golden Sparkle. CLEO-5G. 30¢
 A rich yellow variety.

- Helen Campbell. CLIO-5H. 20¢
Pure white variety. ½ Oz. 50¢.



CLEOME—HELEN CAMPBELL

- lutea. CLEO-3. 25¢
Golden yellow species; 3 ft; Colo.
—Pink Queen. CLEO-5P. 20¢
Clear soft pink turning to apple-blossom.
—Rose Queen. CLEO-SZ. 20¢
A pure rose. ½ Oz. 50¢.
—Mixed. CLEO-X. 20¢

CLERODENDRUM. (klee-row-DEND-rum).
Verbenaceae. Glory Bower. Trs, shs and plants with flowers in terminal cymes or panicles; GH or out doors in S; showy.

- Colebrookianum. CLER-2. 40¢
Sh 8 ft; rose-purple to white; India; (X).
About 75 seeds to ounce.
—japonicum. CLER-9. 40¢
(C. squamatum). Sh to 10 ft; bright scarlet fls in panicles; China.
—myrcoides. CLER-12. 40¢
Butter-fly Bush. Lovely blue fls; sun; E. Af; (X).
—speciosissimum. CLER-16. 40¢
(C. fallax) Sh to 4 ft; bright scarlet fls; 2" ac; Java; (X).
—trichotomum. CLER-17. 50¢
Sh to 10 ft; white fls in panicles; hardy N; Japan. Oz. 60¢; lb. \$3.75.

CLETHRA. (KLETH-ruh)
White Alder. Clethraceae. Shrubs and small trees; start seeds indoors in the spring; most are hardy in the IV zone.

- alnifolia. CLET-3. 30¢
Sweet Pepper Bush; Summer Sweet. 10 ft; Me-Fla; fls in racemes; (IV).
—rosea. CLET-3R. 30¢
A nice pink hybrid.
—arborescens fl pl. CLET-4D. 35¢
Double fls; evergreen; 20 ft; (IX).
—barbinervis. CLET-5. 50¢
To 30 ft; fragrant fls in panicle racemes. Oz. 90¢; lb. \$5.00..
—tomentosa. CLET-9. 35¢
Mussel-shell Creeper. Blue and white fls mixed; showy; (VIII).

When ordering the more uncommon seeds, especially those from the tropics, it is best to include a few substitutes.

CLIANTHUS. (kly-ANTH-us)

Leguminosae. Leguminous shrubs and very striking when in flower; fairly hardy and will stand down to 20 deg. F. if not for too long; shade at roots recommended; soak or file seeds; will not germinate otherwise.

- Dampieri. CLIA-1. 40¢
as soon as soil is warm (as for tomatoes).
high spade under and sow seed then in fall; sow peas on the soil and when 6" in tall; a deep sandy loam is ideal; fine good can be grown in the South or deep con- Stuart's Desert Pea. Glory Pea. This

—puniceus. CLIA-3. 30¢
Red Kaka Beak. One of the earliest N. Z. known plants (1775); flowers large and like a parrot's beak; there is a pink form even prettier; is variable from seed; there is a great opportunity for hybridizing here.

- alba. CLIA-3A. 35¢
White flowered variety.

CLINTONIA. (klin-TOH-nee-uh)

Liliaceae. Attractive plants spreading by underground rhizomes but not invasive; shade; moist woodsy places; showy in colonies; slow to germinate.

- borealis. CLIN-2. 50¢
Greenish yellow nodding fls; 1½ ft; blue branches; Calif.
—uniflora. CLIN-15. 40¢
Queen Cup. Pure white fls, 1½" ac; deep woods; HP; Alaska.

CLITORIA. (kly-TOR-ee-ah)

Leguminosae. Butterfly Pea. Twining vines hardy into the VIII Zone.

- ternata. CLIT-4. 35¢
Twinner; double blue fls; showy; (VIII)

CLIVIA.

- miniata. CLIV-20. 50¢
100 seeds \$15.00.

CLYCLOSORUS.

- pennigerus. CLYE-12. 40¢
A beautiful N. Z. fern with fronds 2-5 feet long.

CNICUS.

- beedictius. CNIC-1. 35¢
(Centaurea b. Centaurea b) 2 ft; yellow fl-heads, 1" across; HA.

CNIDOSCOLUS.

Tread-Softly. Euphorbiaceae. Perennial Amer. plants; few of ornamental value, especially in wild garden; others medicinal herbs.

- texanus CNID-5. 25¢
Bull Nettle. Texas; 2 ft; perennial.

COBAEA

Polemoniaceae. Climbers with pretty bell-shaped, violet or white fls; popular GH plant; sow seed during March in GH; place seed with long edge downwards; germ. up to 3-4 weeks; 70-75 F; plant out in June.

- scandens. COBA-2. 30¢
Climber to 25 ft; violet or greenish purple fls 2" long; sow indoors during Feb. or Mar., 3 seeds to pot thinning to one; sow seed edge-wise. Oz. \$2.00.
—alba. COBA-2A. 30¢
Oz. \$2.40.

Since 1911 locating sources for Seeds listed!

COCCOLOBUS.

Polygonaceae. (Coccoloba) Tropical Am. trees and shrubs for far South or indoor growing in the orth.

—**uvifera.** **COCC-8. 75¢**
 Seaa Grapes Tr to 20 ft; white fls in dense racemes; used jelly; the seed seems to germinate at 80 F in full sun.

COCCULUS.

Snail Seed. Menispermaceae. Easily grown in moist soils; fls small and showy.
 —**carolinus.** **COCL-2. 35¢**
 Carolina Moonseed. Twining red fruits; (IV); HP. **Oz. 80¢.**

COCHLEARIA.

(kok-lee-AY-ri-ah)
 Crucifera. Scurvey Grass. Grown as a salad plant; grow as HA; ready in 60-80 days; cool partly shaded places.

—**officinalis.** **COCR-1. 25¢**
 Used as salad for its medicinal properties; HP grown as an HA.

—**Erfurt Tree.** **COCR-1E. 25¢**
 An improved German variety; the lvs contains much vitamine C; used as a salad.

COCKLOSPERUM.

Cocklospemaceae. Trop. trs and shs; fls in panicles or racemes; new crop seeds usually in November. (kok-loh-SPUR-re-mum)
 —**gossypinum.** **COCH-4. 50¢**

COCOS.

(KOH-koss)
 Palmaceae. Coconut.
 —**australis:** see **Arecastrum.**
 —**campestris.** **COCO-1. 50¢**
 —**nucifer.** **COCO-4. \$1.00**
 The common Coconut of S. Fla; easily grown; cover seed about half, when they germinate quickly. Price is for one seed; if interested in more ask for prices.
 —**Weddelliana:** see **Syagrus Weddelliana.**
 —**Yatay:** see **Butia Yatay.**
 —**plumosa:** see **Arcesium Romanzoffianum**

CODONOPSIS. (koh-doh-NOP-siss).

Campanulaceae. Perennials with shades of blue and yellow flowers with darker veins and blotches; a few are climbers; they require winter protection in the N, but are not real hardy. Sow seeds in Feb. or March at 50 deg. F.; leaf mold gives good results.

—**assuriensis.** **COD-1. 30¢**
 —**clematidea.** **COD-2. 25¢**
 Bell-shaped fls with white or yellow centers; 1 ft; HP.

—**ovata.** **COD-4. 40¢**
 Semi climber; soft blue bells; June; cool soil; sun.

CODIAEUM.

(koh-di-EE-um)
 Croton. Euphorbiaceae. Tropical foliage plants, grown for their beautiful leathery lvs in many colors; GH plants in N; sunny place.

—**capitatum.** **CODI-4. 40¢**
 Woody Croton. Lvs gray, very woolly; HHA; 1-2 ft.

—**variegatum.** **CODI-10. 50¢**
 Ornamental sorts of Crotons.

—**figium.** **CODI-12. 50¢**
 From ornamental colored foliage plants, mixed. **Oz. \$10.00.**

BIENNIALS and PERENNIALS:
 Get them started by Aug. 15th in 5th zone. D. B. means the dried fruits.

NOTE THE LIST OF CALOCHORTUS

COFFEA.

Rubiaceae. Fast growing decorative green foliage; excellent plant for indoors or outside in far South; germ. 2-3 weeks at 70 Fah, bottom heat; requires warmth; good in airy dwelling; pot 2-3 seedlings in pot; rich soil with leaf mold and peat; do not pinch; fruit contains 2 seeds and should be fresh; available June-Aug; plant at once; order early. **25 fruits or berries, \$1.50; 100- \$5.00.**

—**arabica.** **COFF-1. 75¢**

The common Coffee. Sh to 15 ft.

—**robusta.** **COFF-8. 75¢**

COIX.

(KOH-ix)
 Gramineae. Grasses with broad leaves and bead-like seeds; space 12" apart; can be started indoors in March.

—**Lacryma-Jobi.** **COIX-1. 25¢**

Job's Tears. A TP but best grown in the N as an annual; 12"; germination period variable, plant first of May in (V) zone. **Oz. 50¢; lb \$3.75.**

COLCHICUM.

(KOL-chik-um)
 Autumn Crocus. Liliaceae. Mainly autumn blooming cormous plants; bulbs should be planted 2-3" deep during Sept; seed in the spring; rich, sunny soil; germination best after a cold spell; C-24.

—**giganteum.** **COLC-8. 40¢**

Planted in RG or grass; HHHB; 12"; pink flowers; for bulbs see Bulb List.

COLEUS

Labiatae. Showy plants with brilliantly colored leaves; sow seed in pans at 65 F; March is good month to start them.

Coleus if kept under continuous lights will form leaves of a beautiful dark green color with bright green edges. Less than 10 hours of light will produce inferior plants and colors. (KOH-lee-us).

SAIER'S MASTER BLEND

This is a new strain and I believe the best yet developed. Uniform in growth, medium sized leaves with a wonderful blend of bright colors not offered before; they are grown for me by the best Japanese grower of Coleus—a real discovery. Greenhouse growers will certainly find many new types in this blend and a new item for small pot plant sales. **1/32 Oz. \$4.00.**

COLE-MB. 70¢

Labiatae. Here is a suitable genus for shut-ins to grow. They are easy in a warm house; seed germinates easily at around 60-65 Fah, with a little bottom heat; if possible, but not necessary. The seedlings can be pricked out into flats, 1" apart, and as soon as they begin to touch, start transplanting to 2" pots; donot crowd when in pots; give good light; discard poor colors as soon as possible; keep pinched back.

—**Autumn Splendor.** **COLE-1AS. 50¢**

Leaves of rainbow type; color coppery red to deep red with golden yellow borders.

—**Brocade Strain.** **COLE-1. 30¢**

A large leaf strain in rich velvety colors.

—**Fringed Leaf Mixed.** **COLE-2. 30¢**

—**carnosus.** **COLE-26. 40¢**

So. Af species; mauve fls; 15 inches.

—**Glory of Vichy.** **COLE-4. 30¢**

Bright red leaves with green border.

—**Hercules.** **COLE-1H. 50¢**

Enormous ornamental blistered leaves, attractively striped and blotched in many bright and different colors; 16 inches tall.
—**laciniatus.** COLE-7L. 30¢
Small leaves; lacinated; mixed. 1/16 Oz.

metallicus. COLE-5. 30¢
Metallic shining; light red to dark brown-red; fine.

—**Pride of Montferland.** COLE-6. 30¢
Robust and compact growth; best for market growing. 1/2 Oz. \$2.50.

—**Pyrenean Giants.** COLE-7. 30¢
Large robust plants excellent bedder. 1/4 Oz. \$2.00.

—**Super Colosal.** COLE-8. 50¢
—**Striped Empel.** COLE-9. 30¢

Striped green, yellow and brown leaves.
—**hybridus, Orthello.** COLE-11. 40¢

Black; comes true from seed.

—**Monarch Strain.** COLE-10. 50¢
—**Rainbow Blend.** COLE-X. 25¢

SAIER'S MARKET STRAIN. COLE-12.50¢

New strain with extra large leaves distinguished by their beautiful colors; mostly in light pastel shades, robust growth; best strain for the market gardener. 1/4 Oz. \$4.00.

COLLINIA. (kol-LIN-ee-ah)

Palmaceae. (Chamaedorea, Neanthe) The lovely "Mountain Palm of Mexico; grows faster than Kentia and a better seller than Cocos Wedelliana which it resembles; seed ripens Sept to Jan; order well in advance, please.

Seed requires 3-5 months to germ. when kept at 70 Fah, dark and moist; use humas compost, placing under bench in GH; constant moisture and temperature; transplant when 2 fns form.

—**elegans.** COLN-1. 50¢

Seed requires 3-5 months to germinate when kept at 70 Fah.; dark and moist; use humas compost, placing under bench in GH; constant moisture and temperature; traasplant when 2 fans form.

COLLINSIA. (ko-LIN-see-ah)

Scrophulariaceae. Hardy annuals, showy and free-flowering; easy; much used for RG and edging; stands part shade. They prefer a dry location; germination 14 days.

—**heterophylla.** COLL-3. 25¢
(C. bicolor) Rose, white, lilac and blue fls; June-Aug; 15"; space 8" apart; sow thinly in groups, thinning out later; sun; HA. Oz. 75¢.

—**candidissima.** COLL-3C. 25¢
An all white variety.

—**vena.** COLL-9. 50¢
Blue-Eyed-Mary. HA to 12"; sow in late fall or early spring; upper lip white, lower purple; very nice.

COLLINSONIA. (kol-in-SOH-nee-uh)

Horse Balm, Stone Root. Labiatae. Aromatic per; grown in moist woody places.

—**canadensis.** PLANTS ONLY
Citronella. Decid; 1-3 ft; yellowish fls, lemon scented; damp rich woods.
PLANTS: 60¢ each; 3 for \$1.55.

COLLONIA.

Polemoniaceae. Plants allied to Gilia; red, yellow or white tubular fls; sow seed direct to garden; easy; W. N. Amer and Chile.

—**biflora.** COLM-5. 40¢
(coccinea) HA; 2 ft; scarlet fls tinged buff

COLUTEA. (koh-LEU-te-ah)

Sow seed in spring either in flats or open ground; sow thinly and firmly, during Feb. best; some species do not produce seed.

—**arborescens.** COLU-1. 25¢
Fresh seed Sept-Dec; 700 seeds to oz. Oz. \$1.50.

COLVILLEA.

Leguminosae. One African tree with very showy bloom; (IX).

—**racemosa.** COLV-1. 40¢
African trailer for far S; showy flowers, scarlet with yellow stamens in dense drooping racemes 18" long. 100 sds \$3.00. 60 seeds to ounce.

COMMELINA. (kom-el-LYE-nuh)

Commelinaceae. Day Flower. The fls last but one day; grown out doors or GH.

—**crispa.** COMM-6. 40¢
Creeping per. stems 3 ft long; light blue fls with lower petals white; Texas.

—**diffusa.** COMM-8. 40¢
(Sellowiana) Creeping perennial; good ground cover; (IV).

COMPTONIA.

Myricaceae. One species.
—**peregrina.** COMP-1. 40¢
Sweet Fern. Fern-like fls in catkins; 5 ft; HSh.

CONVALLARIA.

Lilaceae. Lily-of-the-Valley.
—**majalis Fortunei.** COUL-1F. 50¢
Large foliage and flowers.

—**rosea.** CONL-1R. 50¢
Pink flowered form.

CONVOLVULUS. (kon-VOLV-yew-lus)

Convolvulaceae. Bind-weed. Flowers are similar to the Morning Glory; much used as vines for covering unsightly places. The "Wild Morning Glory" a bad weed is C. arvensis. (C-1).

—**Crimson Rambler.** CONV-1. 25¢
Climber to 10 ft; crimson fls; HHA.

—**incanus.** CONV-11. 40¢
Trailing, gray HP; 3 ft; fls rose to white; (III).

—**tricolor.** CONV-22. 25¢
Deep blue, yellow and white fls; HA.

Oz. 50¢; 1/2 Lb. \$2.00.
—**Cambridge Blue.** CONV-22C. 25¢

A clear azure-blue variety; 1 ft; pretty.

—**Minor, Dwarf Mixed.** CONV-22MX. 20¢
Richly colored in shades of blue, white and rose; does well in poor soils; 1 ft; HA.

Oz. 65¢.
—**Lavender Rosette.** CONV-22L. 25¢

Very attractive variety of prostrate habit; lavender-blue fls; 9"; HA; trailing.

—**Royal Ensign.** CONV-22R. 25¢
Deepest blue; ideal bedder or edger; 12";

—**Royal Marine.** CONV-22RM. 30¢
New. Rich royal blue; extra dwarf. Oz. \$2.50.

—**White.** CONV-22W. 25¢
—**Rose.** CONV-22Z. 25¢

—**Blue.** CONV-22B. 25¢
—**Mixed.** CONV-22X. 25¢

—**mauritanicus.** CONV-14. 40¢
Prostrate; fls blue, 2" ac; basket and ases; (IX); HP; Af.

- undulatus.** CONV-26. 50¢
Blue fls in clusters; TA.
—**Randii.** CONV-17. 25¢
Dainty species; 12"; pure white; sun; lvs silvery.
—**Convolvulus Mixed.** CONV-X. 25¢

COOPERANTHES.

- Hybrids.** COOT-50. 40¢
Beautiful hybrids of Zephyranthes-like fls; fresh seeds available during May.

COOPERIA.

- (koo-PEER-ee-ah)
Amaryllidaceae. Rain-Lily. Bulbous night blooming plants with basal grass-like leaves. The flowers are fragrant and white; not hardy in the North but can be carried over in dry soil in cool proof room.
—**pedunculata.** COOP-3. 40¢
Tender bulb; white fls tinged red; Texas.

COPROSMA.

- (kop-ROSS-muh)
Rubiaceae. Very variable genus from N. Z. and nearby countries; many are exceptionally handsome in fruit, displaying tightly clustered masses of bright berries. Probably all are hardy above the (IX) zone.
Berries only on female plants; about 70 species mostly from N. Z.. They are especially attractive for their berries in black, orange, blues, yellow and even pearl.

- Baueri.** COPR-4. 40¢
Compact growing sh; dark wreen shining lvs; good on sea coast; hedges; 10 ft; (X); N. Z.
—**grandiflora.** COPR-10. 40¢
Distinct; membranous evergreen; white fls; reddish orange berries; 15 ft; (X).
—**lucida.** COPR-11. 35¢
15 ft; lvs leathery and glossy; reddish orange fruits; N. Z.
—**propinqua.** CRPR-16. 25¢
—**robusta.** COPR-26. 3 ¢
Dark glossy green lvs; white fls followed by yellowish to reddish orange berries; 10 ft; (IX); N. Z.
—**rotundifolia.** COPR-29. 30¢
To 20 ft; red fruits; N. Z.

COPTIS.

- (KOP-tis)
Ranunculaceae. Gold-thread. Little perennials; planted in border or RG; cover seed with leaves to germinate.

- asplenifolia.** COPT-2. 40¢
Whitish fls; Alaska; HP.
this; Texas.
—**trifolia.** COPT-11. 40¢
Very hardy; (II).

CORALLORRHIZA.

- Coral Root. Orchidaceae. Therrestrial orchids; found in rich shady places.
—**sriata.** CORA-10. 75¢
(Bigelowii) To 18"; striped with dark purple; Alaska.

CORDIA.

- (KOR-dee-ah)
Boraginaceae. Tropical trees and shrubs grown in the GH in the North or out side in the South.

- Boissieri.** COR-2. 30¢
Wild Olive. 25 ft tr; (IX); Texas; 25 seeds to ounce; would like to know of trees of

PRINT THE SYMBOLS WHEN ORDERING

It is best to write down both the symbol number and name of seed being ordered; many orders are incomplete.

CORDYLIN.

(kor-de-LYE-nee)

- Lilaceae. Warm climate trees and shrubs with stiff narrow leaves, many having pretty striped and colored leaves; grown in the greenhouse in the North but are hardy in the South; seeds best started indoors, in heat, during March.

- australis.** CORD-2. 25¢
Known as the Cabbage Tree. Striking tree of tropical appearance with bushy heads of grass-like lvs, 3 ft long; white, sweet scented fls in large panicles; 20 ft; (IV); makes good pot or tub plant.

- Banksii.** CORD-4. 50¢
Leaves longer than C. australis; open and drooping, bronzy; fls white, sweet scented, in large panicles; graceful shrub; ideal for riverside; 8 ft; (V).

- purpurea.** CORD-4P. 50¢
—**indivisa.** CORD-12. 25¢

- Dracaena indivisa. Very popular as a center plant, with its long spiked lvs; grown by the GH trade. Oz. \$2.50; lb. \$18.00.

- lineata.** CORD-12L. 30¢

- 100 seeds \$1.00.

- major.** CORD-12M. 30¢

- 100 seeds, \$1.00.

- latifolia.** CORD-12F. 30¢

- 100 seeds, \$1.00.

- Parei.** CORD-12P. 40¢

- terminalis Hybrids.** CORD-24H. 40¢
Lvs 2-3 ft long, 5" ac; 10 ft; in many foliage forms.

COREOPSIS

- Compositae. Annual and perennial plants with yellow brown or rose fls, blooming in summer and fall; makes ideal cut-flowers as well as display in the border. The annuals of this genus, see Calliopsis; C-23; (kor-ree-OP-sis).

- C. LANCEOLATA:** Perennials to 3 ft; hardy and grown for cut-flowers or in the border; C-23.

- Golden Baby.** CORE-12GB. 30¢

- Golden Wheel.** CORE-12W. 25¢

- New Gold.** CORE-12N. 20¢

- 100% double, rich golden yellow fls; 18";

- nice for cutting.

- Double Sunburst.** CORE-12S. 20¢

- Flowers 1½-2 in. across; golden yellow;

- comes 80% double. ½ Oz. 40¢.

- Mayfield Giant.** CORE-12M. 20¢

- Very large butter-yellow fls; true from

- seed; almost semi-double.

- Tapis D'Or.** CORE-12T. 35¢

- (NEW) A new French variety; best of

- their introductions.

- Mixed.** CORE-12X. 20¢

COREOPSIS SPECIES:

- cardaminefolia.** CORE-8. 30¢

- Hardy annual; 2 ft; fl-heads, 1" ac, rays

- brown, purple at , disks dark purple;

- Kansas and south. ¼ Oz. 75¢.

- Golden Baby.** CORE-12GB. 30¢

- grandiflora.** CORE-11 25¢

- Yellow rays; 2½" ac; HP.

- insecta.** CORE-10. 25¢

- 4-5" golden yellow fls; 3 ft; S. Rhodesia.

- maritima.** CORE-17. 25¢

- Sea-Dahlia. 3 ft; heads 3½" ac; Calif.

- glaucous fol; covered with yellow fls for

- weeks; HA.

- Stillmanii.** CORE-26. 25¢

- Flower heads 1½" ac; 1 ft; HA; Calif;

- said to be the quickest to flower from seed;

dwarf growing; golden yellow daisy-like plant; HA.

—*verticillata*.

—**THEAD-LEAF C.** Deep yellow, heads 2" ac; 3 ft; HP. (ver-tiss-sil-LAY-tah).

CORNFLOWERS: see *Centaurea*.

CORIANDER: see *Coriandrum sativum*.

CORIANDRUM. (cor-ee-AN-drum)

Annuals, one species a well known herb grown for its seeds, used for seasonings. Easily grown; sow in sp in N or in the fall in the South.

—*sativum*.

—**CORI-1.** 25¢
Coriander. HHA; 3 ft; seed germ. freely when warm; does not transplant; space 6" apart; cut fruiting clusters when they get brown, dry and store; do this before seeds get too ripe to fall out. Oz. 60¢; lb. \$3.

—**Thuringer.**

—**CORI-IT.** 30¢
Improved German variety.

CORIARIA. (koh-ri-AY-ri-ah)

Coriariaceae. Shrubs hardy in (IX) or (X) zones; small greenish fls in racemes; sow seed during Feb.

—*ruscifolia*.

—**CORR-5.** 25¢
(*C. sarmentosa*) (IX); 15-25 ft; seeds are poisonous altho natives make a wine of the berries.

CORN — ORNAMENTAL KINDS.

The ornamental sorts are very pretty, some with varied colored leaves and other with colored kernals; they are interesting subjects for children to grow; all easily grown.

SAIER'S RAINBOW CORN. **CORN-1.** 35¢

This is a flint-type corn growing 6-8 ft high with highly colored ears 8-12 inches long; the kernals are in every imaginable color, red, green, blue, white, cream, purple and with combinations of these colors; it makes pretty displays for fall and winter use, indoors and in combination with Gourds. Lb. 65¢.

—**Harlequin.**

—**CORN-1H.** 40¢
Japonica variegata) Green and red striped lvs with deep red ears; attractive in the border or for cutting; 4 ft

—**Strawberry Pop Corn.**

—**CORN-2.** 25¢
The true red Strawberry type; ornamental; Oz. 50¢; ¼ lb. 90¢.

—*gracillima variegata*.

—**CORN-3.** 25¢
Grows to 4-5 ft; leaves striped with white and pink; for ornamental foliage. Oz. 40¢.

—**Curagua.**

—**CORN-4.** 25¢
Indian Corn. White, yellow and black kernals; robust growth with green lvs; this lot is white seeded.

—*japonica*.

—**Pierrot.** **CORN-6.** 35¢
CORN-1P. 40¢
Green and white striped lvs with multi-colored ears of white, red, crimson and purple kernals; 4-5 ft.

CORN SALAD: see *Valerianella locusta* v. *oilitoria*.

CORNUS.

(COR-nus)
Cornaceae. Dogwood. Shrubs and small trees, early flowering and showy; easily grown in well drained soil; seeds often require 2 yr to germinate; soak in warm water 2 days before planting; leave out doors during winter.

—**Amomum.**

(sericea); caerulea) Silky D. 10 ft; fls cymes, 2½" ac; fr. pale blue; hardy.

—**brachypoda:** see *C. macrophylla*.

—*canadensis*.

—**CORS-12.** 30¢
Bunch-Berry. Low HP to 10 inches; very pretty ground cover for rocky and bare places in moist sandy soils; very hardy; Oz. 75¢; lb. \$5.25.

—*capitata*.

—**CORS-13.** 35¢
(*Benthamia fragifera*) 40 ft; fls in dense heads, creamy white bracts; fr. scarlet; Himalayas; (X).

—*florida*.

—**CORS-17.** 30¢
Dogwood. Small tree; white fls; showy. Sow seed in fall; cover with sand or peat; do not mulch; after germination takes place lift the seedlings during Oct. after some good frosts when they can be trimmed and potted, if wanted for grafting stocks potting soil must be 5.5 pH; plunge pots in frost free frames so as to be ready for grafting when wanted. Oz. 50¢; lb. \$3.75. d b.

—*Kousa*.

—**CORS-22.** 40¢
Tree to 20 ft; dense heads of creamy white fls. Oz. 50¢; lb. \$3.50.

—*macrophylla*.

—**CORS-23.** 50¢

—*mas*

—**CORS-24.** 30¢
Conelian Cherry. Tr. to 20 ft; yellow fls; edible fr; excellent forcer. Oz. 60¢; lb. \$1.65. c.s.

—*obliga*.

—**CORS-27.** 25¢
10 ft. sh; stems purplish or yellowish red; fls 2" ac, in cymes; fr. blue; (III).

—*officinalis*.

—**CORS-29.** 40¢
Most beautiful golden yellow fls, star-like, in early Spring; fine for cutting; 15 ft sh; China. Oz. \$1.00.

—*sanguinea*.

—**CORS-34.** 25¢
Oz. 75¢; lb. \$2.00; c. s.

—*stolonifera*.

—**CORS-36.** 30¢
Red Osier D. 10 ft; dark red branches. c. s. Oz. 60¢; lb. \$4.50.

COROKIA.

(kor-ROH-kee-uh)
Cornaceae. Ev. sh and trs from N. Z.; hardy to (X) zone; seeds germ. well soon during Feb.

—*Cheesemanii*.

—**CORK-5.** 50¢
Slender twiggy shrub with grayish foliage; fls and berries yellow; not common; 9 ft; (IX).

—*Cotoneaster*.

—**CORK-7.** 50¢
Rigid sh with interlcing black branches; fls yellow, followed by bright berries; 6 ft; (I); N. Z.

—*macrocarpa*.

—**CORK-15.** 50¢
Bushy sh; lvs silvery white underneath; yellow fls; berries golden yellow; 10 ft; (X); N. Z.

CORONILLA.

Leguminosae. Ornamental plants and shs; grown both outdoors and in GH.

—*Emerus*.

—**CORO-9.** 40¢
Scorpion Senna. Sh to 9 ft; yellow fls; hardy V. Oz. 90¢.

—*varia*.

—**CORO-18.** 40¢
Crown Vetch. 2 ft; nice HP for banks and hillsides. Oz. \$1.60.

CORPHANTHA.

—*vivipara*.

—**CORH-74.** 50¢
Cacti. Ball to 4" ac; crown silky carmine; (II) HP.

CORTADERIA.

(kor-ta-DEE-re-ah)
Pampas Grass. Gramineae. Ornamental grasses not hardy in the N. They thrive in

light rich soil. They are pretty; start indoors in Jan. or Feb. in the N and grow on in pots; they will not stand frosts.

—**Selloana.**

Most beautiful of all hardy species; has slender arching lvs and large silvery gray plumes; hardy to V zone; TP. ½ Oz. 90¢.

—**rosea.**

A type with pinkish plumes.

CORYDALIS.

(koh-RID-al-is)

Fumariaceae. Yellow, rose, blue or purple dicentra-like fls in terminal racemes; they are easy to grow in fair garden soil; slow to germinate.

—**cheilanthesifolia.**

Lemon-yellow fls amid ferny fol, tinged gray and maroon; HP; China.

—**lutea.**

Maidenhair-fern-like fol; spikes of vivid yellow tubular fls; May-June; sow in April.

—**nobilis.**

Golden yellow; non-rampant; very early; 10"; HP.

—**ochroleuca.**

Yellowish white fls; 15 inches; HHP; Italy

—**rupestris.**

Yellow fls; 8 inches; HP; Persia.

—**sempervirens.**

—**tuberosa.**

—**Wilsonii.**

Silver fol in basal rosettes; yellow plumes in summer; HP; China.

CORYLOPSIS.

(kor-ri-LOP-siss)

Winter Hazel. Hamamelidaceae. Ornamental decid. shs native of Asia, with fragrant yellow fls in nodding racemes; peat and sandy soil; hardy in (V) zone or with protection in the North.

—**pauciflora.**

6 ft sh; Japan. Oz. 75¢; lb. \$6.00.

—**glabrescens.**

(Gotoana) Sh; 20 ft; racemes 1" long; Japan. Oz. 60¢; lb. \$5.50.

—**spicata.**

Sh; 6 ft; Japan; fls in racemes, 1" long; Japan. Oz. 60¢; lb. \$5.50.

CORYLUS.

(KAR-i-lus)

Hazelnut, Filbert. Betulaceae. Decid. trs and shs grown for ornamental and edible nuts; seed best planted soon after ripening; pots can be plunged in open ground over the winter.

—**americana.**

American H. 10 ft; hardy.

—**Avellana.**

European Hazelnut. 15 ft. Oz. 50¢; lb. \$1.70.

—**cornuta.**

(rostrata) Japanese or Beaked Hazelnut. 10 ft; very hardy. Oz. \$1.20.

—**heterophylla v. japonica.**

Tr or sh to 25 ft; Asia. 4 Oz. \$1.00

—**mandshurica.**

—**Sieboldiana.**

Japanese Hazelnut. (rostrata) Bush to 15 ft. 4 Oz. \$1.20.

CORYNOCARPUS.

Corynocarpaceae. Handsome tr; glossy green lvs and yellow berries; stands drought well; makes nice tub plant; (XI); N. Z.

—**californica.**

Wash.-Calif; lb. \$1.90.

—**laevigata**

Tree to 30 ft; lvs 8" long; greenish fls in panicles to 8" long; nice tub-plant. drought resistant; (XI); N. Z.; 10 seed to ounce.

CORYPHANTHA.

(kor-if-ANTH-uh)

Cactaceae. Cylindrical or ball-shaped small Cacti; fls showy; makes good pot plants; prefers a leafy compost; easy; Mexico to Canada.

—**aggregata.**

Showy fls 3" ac, purplish; very showy in clumps; N. Mexico.

—**Asierias.**

Globose; 5"; white to pink fls; Mexico.

—**Bergeriana.**

Club-shaped, 5" tall; fls white, yellowish center, 1½" long; Mexico.

—**cornifera.**

Globose; fls yellow, tinged red; Mexico.

—**echinoides.**

Globose, 2" ac; fls rose, 3" ac; Mexico.

—**erecta.**

Cylindrical, 12" long; large yellow flowers Mexico.

—**Muehlenpfortii.**

Cylindrical, 2" high; greenish yellow fls, striped red; 2" long; W. Texas.

—**odorata.**

—**pseudonickelsiae.**

—**Palmeri.**

long; Mexico.

—**adicans.**

Globose, 3" diam; lemon-yellow fls; 4" ac; Mexico.

—**Variety.**

—**recurvata.**

Globose, 4" diam; fls brownish outside, lemon-yellow outside, 1" long; Arizona.

—**adicans.**

—**refusa.**

Yellow fls 1¼" ac; Mexico.

—**Schwarziana.**

—**vaupeliana.**

Globose; yellow fls; Mexico.

COSMOS

Showy late flowering annuals and perennials allied to the Dahlia. They are easily grown and thrive even in rather poor soils; indoors; 8-10 ft; germ 8 days; HHA; (KOZ-mos).

C. BIPINNATUS: Half hardy annuals to which belong the commonly known garden forms. Sow direct or may be started indoors; 8-10 ft; C-7; germ; 8 days; HHA.

SENSATION TYPE: Extra large well formed flowers on erect plants; space 20 in.

—**Cardinal.**

Large showy dark red. ½ Oz. 40¢

—**Dazzler.**

A very pretty crimson; 4 ft tall.

—**Gloria.**

—**Pinky.**

A new clear rose-pink.

—**Radiance.**

Deep rose with crimson ring; dandy.

—**Rose Queen.**

NEW. Rose overlaid with clearly defined crimson zone.

—**Scarlet.**

—**Purity.**

A pure white variety.

—**Blend of Above.**

—**Any of Above** (except as noted) ½ oz. 40¢; oz. 75¢.

TRUE or EARLY FLOWERING: A superior garden strain of large size but early blooming flowers.

—**Crimson Queen.**

—**Rose Queen.**

—**White Queen.**

—**Mixed Queen.**

COS-2C. 20¢

COS-2Z. 20¢

COS-2W. 20¢

COS-2X. 20¢

HYBRID VARIETIES: These are not as tall growing; excellent in the border and for cutting.

- Fiesta.** COS-3S. 25¢
Brilliant semi-double; fls gold, striped scarlet; cuts; NEW. ½ Oz. 55¢.
- Orange Flare.** COS-3F. 20¢
Large orange flowers. Oz. 90¢
- Orange Ruffles.** COS-3R. 20¢
Pretty ruffled orange petals.
- Yellow Flare.** COS-3Y. 20¢
A rich yellow. Oz. 75¢.
- Mixed Hybrids.** COS-3X. 20¢
Any of above varieties: Oz. 60¢.

OTHER COSMOS TYPES:

- atrosanguineus.** COS-10. 25¢
- Double Crested.** COS-4X. 20¢
Large double crested flowers in white, pink and crimson.
- Late Mammoth Mixed.** COS-5X. 20¢
Large single flowers best for the South.
- Double Mixed.** COS-7X. 20¢
- Cosmos Blend.** COS-X. 20¢
All kinds mixed. Oz. 40¢.

COSMOS.

(KOS-tus)

Spiral Flag. Zingiberaceae. Tropical perennials with red, yellow and white fls in dense spikes; rich moist soil; grown in the South.

- speciosus.** COST-5. 25¢
White with yellow center; 5 in. spikes; India; 10 ft; TP.

COTINUS.

(koh-TY-nus)

Anacardiaceae. Deciduous trees; well drained soil and two fertile.

- Coggia.** COTI-1. 40¢

COTONEASTER

Rosaceae. Temperate zone shrubs, mostly native of China; very ornamental but some are not hardy in zone (IV); sunny position and well drained soil; the seed should be stratified or sown in the fall and not disturbed for over a year; an acid peat soil is necessary for good germination; seed containers plunged outside during winter can be brot inside early in spring or spring sown seed can be first frozen in refrigerator; (koh-toh-nee-AS-ter).

- acuminata.** COTN-1. 30¢
Pinkish fls in clusters; 12 ft; (IV); c. s. Oz. 50¢; lb. \$5.50.
- acutifolia.** COTN-2. 50¢
Pekin C. c. s. Oz. 70¢; lb. \$9.00.
- apiculata.** COTN-8. 30¢
Decid. sh; 6 ft; pink fls; bright red fr; China; (IV).
- bullata.** COTN-10. 40¢
c.s. Oz. 50¢; lb. \$6.00.
- microphylla.** COTN-10M. 40¢
Decid. sh to 6 ft; pinkish fls 5" long. Lb. \$5.25.
- buxifolia.** COTN-12. 35¢
Low sh; red fruits; India.
- Dielsiana.** COTN-17. 30¢
Decid; 8 ft; pinkish fls; fr. bright red; hardy. c. s. Oz. \$1.00.
- divaricata.** COTN-20. 30¢
Decid; 6 ft; pinkish fls; red fr; hardy. sow in spring or they can be stratified 4 months in acid peat. Oz. 90¢; Lb. \$6.50.
- foveolata.** COTN-22. 25¢
Pinkish fls in clusters; black fruits; 10 ft. sh; China.
- Franchetii.** COTN-23. 35¢
Decid. sh, 10 ft; orange-red fls; (IX); China. Oz. \$3.50; c. s.

—**frigida.**

White fls in dense clusters; fr. bright red; South only. 20 ft.

- glaucoophylla serotina.** COTN-26S. 30¢
7 ft. semi-evergreen; fls in dense corymbs; W. China.

—**Harroviana.** COTN-28. 30¢

A weeping sh; 5 ft; bright red br; semi-ev; white fls in dense clusters, 1½" ac.

- Henryana.** COTN-31. 40¢
To 12 ft; semi-ev. gr; red fr; probably hardy ti VIII zone; China. Oz. 80¢.

—**horizontalis.** COTN-32. 35¢

Semi-ev; 3 ft; frs. red; hardy. c. s. Oz. 50¢; lb. \$6.50. (can be stratified in acid peat for 4 months).

- perpusilla.** COTN-32P. 30¢

Has leaves ¼" or less long.

—**humifusa:** see C. Dammeri.

- integerrima.** COTN-37. 30¢

(vulgaris and pyrenaica) 6 ft; pinkish, nodding fls in clusters; red fruits.

—**Microphylla:** see C. bullata.

- multiflora v. calocarpa.** COTN-44C. 35¢

An E. H. Wilson introduction from W. China; rats not only as one of the most ornamentally outstanding member of the genus but also as one of the most dependable. It is as handsome in bloom as any Spirea with its custers of small white fls in May and has the additional attraction of spectacular bright red fruit in the fall; Sept; the fruits are borne in prodigious quantities along the graceful fully arching branches; 10 ft. (IV).

- pannosa.** COTN-49. 30¢

Silver-leaf C. 10 ft; white fls in clusters; China; (VI). c.s. Oz. 50¢; lb. \$5.50.

- Parnevi.** COTN-51. 35¢

To 6 ft; semi-ev; white fls in dense clusters; large red berries. Oz. \$3.50. c. s.

- rosea.** COTN-54. 35¢

Decid; red fr; 6 ft; HSh. Oz. \$2.00 d. b.

- rotundifolia.** COTN-55. 30¢

Evergreen; white fls in clusters; red fr; 12 ft.

- salicifolia.** COTN-58. 30¢

Ev. to 25 ft; white fls; red fr; hardy. c. s. Oz. 75¢; lb. \$6.00.

- serotina.** COTN-61. 35¢

Small tr; fls in clusters, 3" ac; red fr; China. Oz. \$1.50. c. s.

- Mixed Cotoneasters.** COTN-X. 25¢

COTULA.

(KOT-eu-lah)

Compositae. An. and per; from the S. Hemisphere; usually low tufted or creeping.

- barbata.** COTU-5. 30¢

Attractive little edging pl covered with small golden yellow fls; try 2-3 plants in 3" pots, also in window boxes; RG; 6"; HHA. ½ Oz. \$2.00.

COTYLEDON.

(cot-il-LEED-on)

Crassulaceae. Succulent plants with red, yellow or greenish fls; grown in the GH or RG; likes lime; winter temp. not above 50F.

- obiculata.** COTY-8. 50¢

(Cactus ausane) Red drooping fls; 4 ft; S. Africa.

- oppositifolia.** COTY-7. 50¢

—**paniculata.** COTY-13. 50¢

- simplicifolia.** COTY-15. 50¢

Small pendant yellow flower-bells, over Sedum-like lvs; 6". 1,000 seeds \$3.50.

- teretifolia.** COTY-20. 50¢

Fls in many-flowered corymbs; S. Af.

- Mixed.** COTY-X. 50¢

Add a few 2nd choice items when ordering in case of shortages in your order.

COUROUPITA.

Lecythidaceae. Tropical Amer. trees.
—guineensis. **COUR-9. 40¢**
Cannon Ball Tree. Shade and curiosity.

COWANIA: see *Geum dryadoides*.

CRAPE MYRTLE: see *Lagerstroemia*.

CRASSULA.

(KRASS-yew-luh)
Crassulaceae. Mostly succulents from S. Af.; hardy in far S; good for window boxes or GH in North.

—albiflora. **CRAS-4. 50¢**
Sub-shrub; out doors in S; GH in North.
—falcata. **CRAS-40. 50¢**
Grown mainly as a house plant; bright crimson fls; sh to 8 ft.
—perfoliata. **CRAS-68. 50¢**
Similar to *C. falcata*; fls crimson; S. Af.

CRATAEGUS.

(kra-TEEG-us)
Hawthorne, Thornapple. Rosaceae. A beautiful group of shrubs and small trees all of ornamental value. Prefers sunny locations in rich loamy limestone soils; sow seed as soon as possible or stratify; soak berry well before plnting; often requires 2 years to germinate; try sowing in flats stored in a cool cellar, bring out in April or May.

I will have some stratified seeds of most species; the cost is more but germination is quicker.

—Crus-galli. **CRAT-16. 30¢**
Cockspur T. White fls tinged with red; fr; 20 ft; hardy. c. s. Oz. 50¢; lb. \$2.90.
—Douglasii. **CRAT-19. 30¢**
Tree to 30 ft; fls ½" ac; black shining fr; Minn; III; c.s. Oz. 60¢; lb. \$6.00.
—intricata. **CRAT-35. 30¢**
(*C. coccinea*) Dark glossy lvs; fr large scarlet; 15 ft. Lb. \$3.25.
—monogyna. **CRAT-47. 40¢**
English Hawthorne. To 30 ft. fls ½" ac; fr. bright red. c. s. Oz. \$1.25.
—Oxyacantha. **CRAT-50. 35¢**
English Hawthorn. To 15 ft; fr bright red. Oz. 90¢; lb. \$3.80.
—Smithiana. **CRAT-69. 40¢**
English grown seed.

CRAWFURDIA.

(craw-FUR-de-ah)
Gentianaceae. Twining plants from the Himalayas and allied to the Gentians, which see for culture. They are not hardy in North but do well in California; rare in American gardens.

—japonica. **CRAW-1. 35¢**
Dull greenish fls; fleshy fruits; very ornamental; vine; HHP.
—speciosa. **CRAW-3. 35¢**
Blue funnel-shaped fls; vine; the hardest species; HHP.

CREMANTHODIUM.

(cre-man-THOD-ee-um)
—Thompsonii. **CREM-5. 30¢**
Lemon-yellow fls, 1¾" across.

CREPIS.

(KREEP-iss)
These are showy and very easily grown hardy annuals; flourish in light and dry soils. The fls are dandelion-like and most attractive in the border; colors in red, yellow and orange; space 9" apart; Compositae.
—conyzifolia. **CREP-2. 50¢**
—blattarioides. **CREP-3. 50¢**
—glomerata. **CREP-5. 40¢**
Yellow fls; black anthers; 6-10" high.
—incarna. **CREP-7. 40¢**

Thrives in poor sandy soil; long display of soft pink fls; June-Aug; silvery fol; 9"; RG or border; full sun; HP.

—Jacquinii. **CREP-8. 50¢**
—paludosa. **CREP-10. 30¢**
—pannonica. **CREP-11. 50¢**
—siberica. **CREP-14. 50¢**
—Mixed Species. **CREP-X. 25¢**

CRESS: see *Lepidium sativum*; *Nasturtium*; *Barbarea vulgaris*.

CRINUM.

(KRY-num)
Amaryllidaceae. Easily grown plants, some species probably hardy in (V) zone; grown very much like *Amaryllis*.

—amcenum. **CRIN-2. 50¢**
¼ Oz. \$9.00.

CROCUS.

(KROH-kus)
While many species of *Crocus* are ordinarily purchased as bulbs, a great deal of interest and pleasure can be had in raising them from seeds; seed germinates best after a cold spell; usually planted in the fall; C-24.

—vernus. **CROC-41. 40¢**
Lilac fls; native of Europe.
—*Crocus Blend*. **CROC-X. 25¢**

CROSSANDRA.

(kros-SAND-ruh)
Acanthaceae. Tropical plants and shrubs grown outdoors in the far S or under glass in the N; best started in early summer.

—nilotica. **CROS-3. 40¢**
South Rhodesian species.
—infundibuliformis. **CROS-2. 40¢**
(*undulataefolia*) Attractive and valuable pot plant with glossy *Gardenia*-like foliage; fls overlapping petals of clear salmon; sow anytime, best in autumn or early spring; flowers in 7-8 months in warm house at least 70 F at night, minimum 65 degrees; rich soil; 100 seeds \$4.00; 500, \$19.00.

CNICUS.

—Weddelliana: see *Syagrus Weddelliana*.
—benedictus. **CNIS-3. 30¢**

CROTALARIA.

(kroh-tah-LAY-re-ah)
Leguminosae. Rattle Box. Plants with Sweet Pea-like fls; swollen pods; soak seed in warm water; in the N they can be grown in the greenhouse; soak seeds 24 hours.

—anagyroides. **CROT-2. 25¢**
Shrub to 8 ft; fls yellowish with darker lines; X; Venezuela.
—capensis. **CROT-6. 30¢**
Golden yellow Sweet peas; 5 ft. sh; soak seeds; TSh.
—Rhodesiae. **CROT-14. 30¢**
Procumbent; golden orange fls; RG; sun light soils; TSh.
—spectabiliis. **CROT-16. 40¢**
(*Retzu, serica*) 4 ft sub-sh; purplish fls in 30-fl'd racemes 1 ft long; India.
—usaramoensis. **CROT-19. 30¢**
—Mixed Species. **CROT-X. 25¢**

CRUCIANELLA.

(kro-she-an-NEL-ah)
Rubiaceae. Crosswort. Annuals and perennials of Medit. region and W. Asia; partial shade; RG.

—stylosa. **CRUC-6. 35¢**
Pink fls; plant prostrate; Persia; HHP, RG; C-23. Oz. \$2.50.

Please do not order by the common name!

CRYOPHYTUM.

(krye-OFF-it-um)

Aizoaceae. (*Mesembryanthemum*) Annual and biennial low growing plants; solitary red, yellow or white fls; lvs glister.

—**crystallinum.****CRYO-3. 30¢**

Ice Plant; HHA; used as ground cover in South; in N good plant for window boxes. ½ Oz. 75¢.

CRYPTOMERIA.

(krip-toh-MEER-ee-uh)

Taxodiaceae. One Japanese evergreen tree; pyramidal habit; beautiful growth and used as street trees; germ. at 60 F; 15 days.

—**japonica.****CRYM-1. 35¢**

Hardy to D. C. and up to N. E. states; (V). sow seeds in spring if wanted for stocks. Oz. 50¢; lb. \$3.00.

—**torta.****CRYM-IT. 35¢****CRYPTOSTEGIA.**

(krip-toh-STEE-jia-h)

Asclepiadaceae. Rubber Vine. Woody vine from tropical Af; grow indoors; sandy loam. lb. \$2.00.

—**grandiflora.****CRYG-4. 50¢**

Purplish fls, 2" ac; Africa.

—**madagascariensis.****CRYG-8. 50¢**

Pink or whitish fls; 2" ac; thick glossy lvs; (XI).

CUCUMIS.

(KEW-kew-mis)

Tender annual vines to which the Cucum-ber and Melon belong. They are mainly grown for their edible fruits; some are ornamental as well.

—**Anguria.****CUCU-1. 25¢**

West India; Burr Gherkin. Fruits curious and used in pickles; trailer or cl.

—**anguineus:** see *Trichosanthes*.—**dipsaceus.****CUCU-2. 35¢**

Teasel Gourd. Fruits nearly globose, 2" long; sow when soil is warm; HHA; curious; Arabia.

—**ficifolius.****CUCU-3. 40¢**

—**melanosperma:** see *C. ficifolia*.

—**Melo v. Dudaim.****CUCU-4D. 35¢**

Fruit size of Orange, marbled; highly perfumed.

—**Pocket Melon.****CUCU-4P. 25¢**

This is a small melon about 4" ac; striped; it is an old type.

—**sativus.****CUCU-10. 50¢**

These are lots of seed from Burma, Korea, the Netherlands, Phillipines, Chinadan India and of value as research stock.

CUCURBITA.

(kew-KERB-it-uh)

Cucurbitaceae. Running plants of which the Squash, Pumpkin and Gourd are members; some are ornamental as well as edible.

—**ficifolia.****CUCB-3. 25¢**

Malabar Gourd. Ornamental; perennial in warm regions; requires 125 days to mature; roots at each node and runs rampant; 12 ft. Oz. 90¢.

—**Peno.****CUCB-12. 35¢**

Annual summer or autumn Pumpkin. The small Gourds belong here; see under Gourds.

CUMIN.

Umbelliferae. Small plants of Medit. regions; in N. should be started indoors because the seed is the valuable part and requires a good season; store seed in containers.

—**Cvminum.****CUMI-5. 35¢**

HHA; 8"; the aromatis seeds are used as flavoring, the same as Caraway; start early

indoors or sow in May direct.

CUNNINGHAMIA.

(kun-ning-HAM-ee-uh)

Taxodiaceae. China Fir. (Belis). Two evergreen trees allied to *Cryptomeria*. Have stiff sharp pointed flattened lvs. Hardy in the far South.

—**lanceolata.****CUNN-2. 40¢**

(sinensis) Beautiful *Araucarita*-like conifer; good st. tr; 20-30 ft; V zone China. Oz. 90¢; lb. \$7.00.

CUNONIA.

(kew-NON-ee-ah)

Cunoniaceae. Trees and shrubs from the Southern Hemisphere. Ornamental and suitable for far South.

—**capensis.****CUNO-2. 35¢**

Handsome S. Af. tree; fls white like the Bottle-brushes, above the foliage.

CUPHEA.

(KEU-fe-ah)

Lathraceae. Tropical plants, mostly GH subjects in the N but pretty annuals for outdoors in S; nice in pots or baskets; best started during Feb. in heat and planted out during May.

—**Hybrids, Butterfly.****CUP-3B. 25¢**

Very pretty and in many colors; 2 ft; TA.

—**Firefly.****CUP-3F. 25¢**

Deep red flowers. ½ Oz. \$1.50.

—**heterophylla.****CUP-4. 35¢**

Purplish or reddish fls in racemes; 2 ft; Mexico; (parsonia).

—**igneae.****CUP-5. 25¢**

(*C. platycentra*) Cigar-Flower. Bedding; red and white fls; 1 ft; TA space 9"; very showy in pots. ½ Oz. \$4.00.

—**lanceolata.****CUP-7. 25¢**

Purple fls; Mexico: 4 ft; TA; space 18".

—**Llavea v. miniata, Vermilion.** **CUP-8V. 25¢**

Brilliant vermilion s; 1 ft; TA; space 9".

—**Mixed Cupheas.****CUP-X. 20¢****CUPRESSUS**

Cypress. Cupressaceae. Ev. gr. trs. and shs; not hardy in N; the true Cypress.

—**arizonica.****CUPR-1. 30¢**

Tr to 40 ft; very popular in our S. W. Oz. 70¢; lb. \$3.50.

—**arizonica glauca.****CUPR-1G. 30¢**

Tree to 40 ft; silvery gray when young; probably (VIII); sow spring or fall; stratify in moist sand 2 months at 40 F.

—**Ducloxiana.****CUPR-6. 30¢**

Bhuton C. Tree to 150 ft; drooping branchlets; Himalayas; formerly classified as *C. torulosa*. Oz. 50¢; lb. \$3.00.

—**horizontalis.****CUPR-17. 40¢**

Branches spread horizontally. Oz. 50¢; lb. \$1.90.

—**lusitanica.****CUPR-20. 35¢**

Portuguese or Mexican C. Tree to 50 ft. Oz 50¢; lb. \$3.00.

—**marcrocampa.****CUPR-23. 50¢**

(*Lambertiana*) Monterey C. Tree to 40 ft. sow seed Feb-Mar indoors or later outside. Used as stock for grafting varieties. Oz. 90¢; lb. \$7.50.

—**sempervirens.****CUPR-29. 35¢**

Italian C. Tr to 80 ft; very ornamental; sow seed Feb-Mar indoors or later outside. (VIII)

CURCULIGO.

(kur-KEW-lig-oh)

Amarylhidaceae. Stemless *Amarylis*-like plants with short thick root stock; popular GH foliage plants or outdoors in the South; requires high temperature; plenty of moisture and a rich soil.

—*capitulata*. **CURC-1. 30¢**
Dark green leaves 3 ft. long; palm-like;
fine for pots.

CURCUMA. (kar-KEU-mah)
Zingiberiaceae. Robust per. with tuber-
ous roots; warm GH during winter or out-
side in far South.

—*Zedoaria*. **CURU-7. 75¢**
Seed very scarce. Dwarf rhizomatous
plant with Ginger-like roots; huge spikes
of beautiful fls bracts of pink, white and
rosy fls, 10 ft high.

CURTONUS. (kur-TON-us)
Iridaceae. Allied to Antholyza, Chasman-
the and Anapalina. Only one known species;
grow as you would Gladiolus

—*paniculatus*. **CURT-1. 30¢**
Leaves 2 ft. long, 3" wide; red-yellow
fls; 4 ft; TP.

CYANANTHUS. (cy-NAN-thus)
Campanulaceae. Small Himalayan plants,
nice for the RG. They are related to Cod-
onopsis but not climbing, flowering in late
summer; hold over first winter in pots; needs
good growth first year; a lovely race.

—*lobatus*. **CYAN-4. 30¢**
One of the best species; large blue fls; 6";
HP.

—*microphyllus*. **CYAN-7. 50¢**
(C. integer) Gay blue starry fls on trail-
ing stems; 2"; autumn flowering; HP.

CYCAS. (SYE-kass)
Cycadaceae. Greenhouse plants for speci-
mens or out doors in the South. Cover seed
with sand and germinate in greenhouse and
pot off as they germinate; 70 degrees Far.
Called Palms but they are not.

—*revoluta*. **CYCA-7. \$4.00**
Sago-Palm. 10 ft; Japan. 10 fruits \$4.00;
shipped as received.

CYATHEA. (sy-ATH-ee-uh)
Cyatheaceae. Tree Ferns with trunks 50 ft
high; tropical; good for far S or GH.
—*cunninghamii*. **CYAT-2. 75¢**
—*dealbata*. **CYAT-3. \$1.00**
Showy Treefern on account of its milk-
white under surface; to 30 ft; fronds 12 ft
long and 4 ft broad; popular; N. Z.
—*medullaris*. **CYAT-8. \$1.00.**
Sago-Fern. A beautiful large tree fern;
to 50 ft; N. Z.

CYCLAMEN

Primulaceae. Low GH plants, some are
hardy outdoors in the N. The florist Cycla-
men is very popular. (SIK-lah-mum).

Florists growing *Cyclamen* realize the
value of good seed; even cheap seed is ex-
pensive, when you figure on around 50-80
seeds from a large plant; it is easy for the
seed grower to sell his brilliant plants and
then save seed from the left-overs; the seed
costs a little less but there is a big differ-
ence in quality. New Crop seed comes in
late spring. Order early.

CYCLAMEN INDICUM: Popular pot plants
for the GH. Sow in Sept.; requires 15-18
months for good 6"-pot plants.

Seed should be sown during August to
October, placing seeds 1" apart in flats of

light sandy soil to which some leaf mould
has been added. Seed is variable in germi-
nation, so when seeds are 1" apart, the
seedlings can be lifted out without dis-
turbance nearby ungerminated seed; seed-
lings can be left in seed flat till spring.
The main point in their culture is to keep
them growing when young.

Cyclamen tubers: I can supply the tubers
of several species but they must be ordered
well in advance; they come from Germany.
Plant tubers ½ out of the soil;

—*Baardee's Wonder*. **CYCL-9B. 50¢**

—Fine salmon with white border.

—*Bonfire*. **CYCL-9F. 50¢**

—Brilliant salmon color.

—*Harlequin*. **CYCL-9H. 50¢**

—Red and pink striped fls.

—*Dr. A. Steffin*. **CYCL-9AS. 50¢**

—*Pearl of Zehlendorf*. **CYCL-9PZ. 50¢**

—Deep salmon-pink.

—*Rose of Zehlendorf*. **CYCL-9Z. 50¢**

—A showy bright rose color.

—*Salmon-Scarlet*. **CYCL-9S. 50¢**

—An improved America.

—*White with Crimson Eye*. **CYCL-9E. 50¢**

—*Elysees Strain, Mixed*. **CYCL-9EX. 50¢**

—Giant fls of 8-10 petals on stiff stems;

slightly less floriferous than *Alsmeer strain*

but bearing much larger fls; 10-12".

—*New Ruffled, Mixed*. **CYCL-9RX. 50¢**

—Ruffled petals; try a few in your list.

—*Rococo, Mixed Colors*. **CYCL-9CX. 50¢**

—An extra large flowering strain.

—*Cyclamen Blend*. **CYCL-9X. 50¢**

—A hand-made blend for greenhouse use

PRICE: Any of Above, \$12.00 per 1,000.

seeds; 100 seeds (not less than 25 of a

kind) \$1.50. Orders received before July

1st — 10% more seed will be added.

CYCLAMEN SPECIES:

Seed is best if sown as soon as possible
after harvest; if not ordered otherwise,
orders on the following received after Jan.
will be so held. Seed may take months to
germinate.

—*coum*. **CYCL-4. 50¢**

—*cilicium*. **CYCL-3. 50¢**

—Large pale rose fls purple in throat; seed

available after new crop; limited.

—Purple fls with spotted throat; seed will

be available after new crop; limited.

—*album*. **CYCL-4A. 50¢**

—Winter flowering; white fls.

—*europacum*. **CYCL-6. 50¢**

—Bright red fls; fragrant 4-5"; HP; IV.

—*neapolitum album*. **CYCL-12. 50¢**

—Hardy white *Cyclamen*; autumn flower-

ing; 4"; HP; IV.

—*Tregve Strain*. **CYCL-12T. 50¢**

—Seed available after new crop; limited.

—*pseud-ibericum*. **CYCL-14. 50¢**

—Seed available only from new crop.

CYCLOPHORUS. (sy-KLOFF-or-us)

Felt Fern. Polypodiaceae. Tropical ferns;

Tenue or Japanese Fern. Fronds about

Malayan; similar to *Polypodium*.

15" long; Japan.

—*lingua*. **CYCF-3. 50¢**

—This has been reclassified to *Pyrrosia*.

CYDONIA. (cy-DON-ee-ah)

Rosaceae. Quince. A small tree to 20 ft;

the Japanese Q. see under *Chaenomeles*.

—*chrysantha*. **CYDO-1. 35¢**

—(vulgaris) 20 ft; white or pale pink fls,

2" ac. **Oz. 60¢.**

—*semperflorens*. **CYDO-3. 35¢**

START BIENNIALS DURING SUMMER

CYLINDROPHYLLUM.

Aizoaceae. A very succulent S. Af. genus, formerly in Mesembryanthemum.

—**calamiforme.** **CYLI-4. 50¢**
Pale pink fls with yellowish white at base, 3" across.

CYMBALARIA. (sim-bah-LAY-re-ah)

Scrophulariaceae. Creeping herb perennials; very much like Linaria. They are tender and should be grown as annuals in the N; nice basket plants for shady places.

—**mura.is.** **CYMB. 3. 25¢**
Kenilworth Ivy. Lilac-blue fls; a good basket plant for shady places.

CYNARA. (SIN-er-uh)

Compositae. Course per. and bien. plants native of Medit. regions.

—**aureantica.** **CYNA-2. 50¢**

—**Cardunculus.** **CYNA-1. 25¢**

Cardoon. Cultivated for its edible root; start early; 6 ft. Oz. 50¢; lb. \$3.50.

—**Spineless.** **CYNA-1S. 25¢**

—**Bolognese.** **CYNA-1B. 25¢**
Oz. 40¢.

CYNOGLOSSUM. (sin-oh-GLOS-um)

Boraginaceae. Hound's Tongue. Annual, biennial and perennial plants grown for cut-flowers; germinate in 10 days.

—**amabile.** **CYNO-1. 20¢**
Deep blue; 2 ft; grow as HA; space 12". Oz. 50¢.

—**Blue Cloud.** **CYNO-1BC. 25¢**

A delicate blue and white; a dwarf Firmament habit. ½ Oz. \$1.50.

—**White Cloud.** **CYNO-1WC. 25¢**

—**Pink.** **CYNO-1P. 25¢**

—**Firmament.** **CYNO-1F. 25¢**

A compact blue var; 15"; HA. ½ Oz. 40¢.

—**caelestinum.** **CYNO-3. 20¢**

Properly listed as *Adelocaryum caelestinum*. Blue fls; 2 ft; especially grown for bee food. Oz. 50¢; lb. \$2.00.

—**linifolium:** see *Omphalodes linifolia*.

—**nervosum.** **CYNO-6. 35¢**

lue fls, ¾" ac; 3 ft; Himalayas. ¼ Oz. 80¢

—**zeylanicum.** **CYNO-9. 35¢**

(*C. furcatum*). 3 ft; HA; blue fls; India.

—**Cynoglossum Mixed.** **CYNO-X. 20¢**

CYPELLA. (sy-PEL-ahh)

Iridaceae. Bulbous plants from S. Amer; basal lvs; fls orange, yellow or blue; much like Iris and Moraea.

—**Herbertii.** **CYPL-2. 40¢**

To 3 ft; yellow fls; Brazil.

CYPERUS. (sy-PEE-rus)

Cyperaceae. Galingale. An. but mostly perennials; leaves grass-like; fls in spikelets. They are grown in ponds or as pot plants.

—**alternifolius.** **CYPE-2. 30¢**

Umbrella Plant. Handsome ornamental foliage plant with deep shining green fronds, resembling a miniature Palm; excellent for GH or indoors; good plant in 3 months from seed; 2-3 ft; TP. ¼ Oz. 60¢.

—**nana compacta.** **CYPE-2N. 40¢**

Dwarf compact strain for pots. 1/8 oz. 65¢

CYPHOMANDRA. (sy-foh-MAND-ruh)

Solanaceae. S. Am. tropical shrubs and trees with flowers in racemes or cymes followed by many seeded berries. Grow same as Egg Plant; hardy only in far South.

—**hetacea.** **CYPH-1. 40¢**

Tree Tomato Sh to 10 ft; lvs 1 ft long;

pinkish fls, ½" ac, fragrant; fr egg-shaped, dull red, 3" long; tomato-like flavor. ½ Oz. \$2.00.

CYPRIPEDIUM

Orchidaceae. Lady Slipper. Terrestrial orchids, hardy in zone (III); very pretty; try sowing seeds on well rotted wood in a shady place. (sip-ri-PEE-di-um).

—**acaule.** **CYPR-1. 60¢**

Pink Lady Slipper. Beautiful in shady spots; May-June; HP; (III); try sowing seed on well rotted hard wood; pH 4-5. pH 6-8.

—**Calceolus.** **CYPR-4. 50¢**

Yellow Eurasian Lady Slipper. Styria.

—**pubescens.** **CYPR-4P. 50¢**

Larger and more hairy; fls larger; (III).

—**Reginae.** **CYPR-18. 50¢**

Showy Lady Slipper. Fls 3" ac; white,

lips striped rose; pH 6-8; (III); HP.

PLANTS: We can supply plants in Spring or Fall; see plant list.

CYPTOSTEGIA.

Asclepiadaceae. Rubber Vine. Three woody tropical Af. vines; large funnel-shaped fls; can be grown under glass.

—**grandiflora.** **CRYG-2. 35¢**

Very attractive tree or bush; funnel-shaped reddish purple fls that turn pale with age.

CYRTOMIUM. (ser-TOH-mee-um)

Polypodiaceae. Easy ferns for the GH; half hardy.

—**falcatum v. Rochefordii.** **CYRT-4R. 50¢**

Holly Fern. Stiff, dark green fern; 2 ft; GH.

CYSTOPTERIS. (sis-TOP-ter-is)

Bladder Fern.

—**bulbifera.** **CYST-2. 50¢**

PLANTS: 50¢ each; 3 for \$1.40.

CYSTOPTERIS. (Bladder Fern)

—**bulbifera.** **CYST-2. 50¢**

Berry Bladderfern. Tiny bulblets along underside of fronds; part shade; good RG; 1-2 ft; set crown at surface of soil.

PLANTS: 50¢ each; 3 for \$1.40. Prepaid.

CYRTOSIA: see *Galeola*.

CYTISUS. (SIT-i-sus)

Leguminosae. Broom. Shrubs very similar to Genista. They are not hardy in the North but can be forced in the GH in a cool place; many are very showy. They thrive in full but not too rich soil; the species best grown from seed sown during Feb; grow seedlings on in pots till ready for permanent location.

—**alpinus:** see *Laburnum*.

—**canariensis.** **CYTS-9. 50¢**

—**decumbens.** **CYTS-16. 35¢**

Prostrate, yellow fls; May-June; 8"; HP.

—**Hybrids.** **CYTS-25H. 35¢**

—**Laburnum:** see *Laburnum anagyroides*.

—**purpureus.** **CYTS-44. 40¢**

White, pink or purplish fls; 2 ft.

—**scoparius.** **CYTS-48. 40¢**

(*Spartium scoparium*) Oz. 50¢; lb. \$4.00.

DABOECIA. (dab-oh-EESH-ee-uh)

Irish Heath. Ericaceae. One evergreen Heath-like shrub, suitable for the RG; it requires winter protection in the N; thrives in

a peaty acid soil; sow in peaty soil in Feb; germinates freely.

- cantabrica. DAB-1A. 50¢
Irish Heather. White form; 2 ft; HSh; V.
- Hybrid. DAB-1H. 25¢
Pink to rose; 6-12 in; long bloomer; HP.

DAHLBORG DAISY: see *Thymophylla*.

DAHLIA

Compositae. Tender perennials; the growing of them from seed is an interesting undertaking and many new forms and varieties can be developed; start seed indoor for an early start, or seed can be planted out doors so that seedlings will not be killed by frosts.

In the dwarf types, especially, flowers can be produced from seeds as soon as from the tubers or cuttings and with the added advantage of more robust growth. Do not throw weak seedlings away as they often produce the best flowers; start seeds indoors in Feb. or March for early flowers. start indoors in Mar-April; grow on in pots

FALL FESTIVAL.

DAHL-10. 35¢

A red-leaved, glossy foliage; excellent for bedding plant trade; shadish of crimson, red and orange, reminiscent of the North woods in fall; 3 ft.

- Coltess Hybrids. DAHL-2. 25¢
Dwarf; single fls, blooming in 4 months from seed. Oz. 80¢.

- Large semi-double fls; breeds true; 1½ ft.
- Scarlet Gem. DAHL-2S. 25¢
Oz. 90¢.

- Yellow Gem. DAHL-2W. 25¢
Oz. \$1.00.

- Breeds true from seed; 15 inches.
- Collarette. DAHL-3. 25¢
Large semi-double flowers

- Decorative Giants. DAHL-4. 25¢
Exhibition strain from newest varieties.

- Oz. \$4.00.
- Giant Hornveld Hyb. DAHL-2G. 40¢
Immense double and semi-double fls;

- this comes true from seed.
- Mignon. DAHL-6. 25¢
Very large single fls in bright colors; 18".

- Oz. 75¢.

- Unwin's Dwarf Hybrids. DAHL-7. 25¢

The best bedding Dahlia; 20" high, producing an abundance of double and semi-double fls; excellent from seed sown early in spring. Oz. 80¢.

- Giant Perfection, Mixed. DAHL-2GP. 30¢
Single French strain. Oz. 90¢.

- Queen of Moorland. DAHL-9. 25¢
Dwarf; black lvs; double; Feb. sown seed blooms in July; 18".

- Zula Hybrids. DAHL-8. 25¢
Dark leaf strain double and semi-double

- hybrids in red, orange, yellow and lilac shades. ¼ Oz. 80¢.
- Single Varieties Mixed. DAHL-8X. 25¢
Oz. 50¢.

- Mixed Dahlias. DAHL-X. 25¢

DALBERGIA.

Leguminosae. Tropical trs and cl. shs; some valuable timber trs.

- latifolia. DALB-5. 50¢

- Rose-wood. Oz. 90¢.
- Sissoo. DALB-9. 50¢

Deciduous tr to 80 ft; India. Oz. 90¢.

DAMNACANTHUS.

Rubiaceae. Asiatic shrubs.

- indicus. DAMN-5. 50¢
5 ft; small fruits.....100 seeds \$3.00.

DANAE.

(DAY-nuh-ee)

Liliaceae. Native of S. W. Asia.

- racemosa. DANA-1. 35¢

Alexander Laurel. Small white fls in terminal racemes; 3 ft; red berries; native of S. W. Asia. d. b. Oz. 50¢; lb. \$3.50.

DANTHONIA.

- setacea. DANT-10. 25¢

Mulca Wallaby Grass; Australia.

- spicata. DANT-13. 50¢

Poverty grass.

DAPHNE.

(DAFF-nee)

Thymelaeaceae. Small decid. or ev. shs especially valuable for their fragrant fls; they thrive in a well drained sandy loam, well supplied with leaf mould. They are not all hardy in the N and some are grown in the GH; treat as annual; 4 ft; HP; very pretty shrub with its - small-lateral leaflets; sensitive to sound.

- glandulosa. DAPH-12. 50¢

- Laureola. DAPH-14- 25¢

- Mezereum. DAPH-16. 50¢

Lilac-purple fls; scarlet fr; 4 ft; seed can be sown in July or August; peaty soil.

- Oz. 50¢; lb. \$3.50.
- alba. DAPH-16A. 50¢

- White flowered form and yellow fruits.
- rubra. DAPH-16R. 30¢

- Reddish purple flowers.
- oleoides. DAPH-20. 30¢

- White or pale lilac fls; 3 ft; ev; TSh.
- tangutica. DAPH-34.5 0¢

- Mixed. DAPH-X. 25¢

DAPHNIPHYLLUM.

(daf-nif-FILL-um)

Euphorbiaceae. Ev. trs. and shs; leathery lvs.

- humile. DAPP-4. 40¢

To 5 ft; dark blue fr; Japan. Oz. 70¢;

- lb. \$4.60.
- glaucescens. DAPP-8G. 50¢

- Small leaf strain of above.....Oz. \$1.00.
- macrodonum. DAPP-8. 40¢

- 20 ft; racemes 4" long; a nice tr for the

S, standing several degrees of frost. Oz.

- 70¢; lb. \$4.00.
- virid pes. DAPP-12. 40¢

- Oz. 75¢; lb. \$4.50.

DARWINIA.

Myrtaceae. Ev. sh. of Australia and planted in the South.

- citriodora. DARW-4. 40¢

- 2 fr. fls in terminal heads.
- pauciflora. DARW-13. 40¢

- 5 feet; Australia.
- purpurea. DARW-15. 40¢

- 1-2 ft; Australia.
- Rhadinophylla. DARW-9. 50¢

- sanquinea. DARW-20. 40¢

2 feet; Australia.

DASYLIRION.

(dass-il-LIHR-ee-on)

Liliaceae. Sotol. Desert plants of N. Am and Mexico; very attractive in bloom; dense paniced racemes of small white fls; makes a good tub plant.

- glaucophyllum. DASY-3. 50¢

18 ft; (X). 100 seeds \$1.60; 1,000, \$4.50.

- gracile.** **DASY-5.** 50¢
100 seeds \$1.80; 1,000, \$5.00.
—**longifolium:** see *Nolina longifolia*.

DATURA

Solanaceae. Annuals and perennials found in warm regions. Many are ornamental due to their large trumpet-shaped fls; all have narcotic effects and poisonous if eaten in quantity. Species identified as to (1) fls pendulous, (2) erect. In (1) are arborea, sanguinea, suaveolens and in (2) Metel, meteloides, innoxia, Stramonium and ferox. In a rich soil; sun and plenty of space essential; start indoors in March and grow on in pots till set out after frost.

- arborea.** **DATU-1.** 30¢
Angel's Trumpet. Small tr; large white fls with musk-like odor.
—**fastuosa fl. pl.** **DATU-8.** 25¢
Double flowers mixed. **Oz.** 80¢.
—**ferox.** **DATU-9.** 25¢
Light blue flowers.
—**innoxia.** **DATU-10.** 25¢
—**Metel.** **DATU-11.** 25¢
Resembles 18 in habit; 5 ft; TA; mature fruits never erect.
—**alba plena.** **DATU-11A.** 30¢
Large white fls. **Oz.** 50¢.
—**aurea plena.** **DATU-11Y.** 30¢
Yellow fls. **Oz.** 50¢.
—**fastuosa.** **DATU-11F.** 35¢
Purple flowers.
—**meteloides.** **DATU-13.** 40¢
(Wrightii) Per. grown as TA; 3 ft; fls erect, 8" long; white tinged rose or violet.
—**quecifolia.** **DATU-14.** 40¢
HHA; Mexico; 5 ft; erect, white fls, 4" long.
—**Stramonium.** **DATU-18.** 25¢
Jimson or Jamestown Weed. The species generally used for its leaves for medical uses: lavender-white trumpet fls, 4" long; 5 ft; TA; seed of all Thorn Apples are very poisonous.
—**chalybaea.** **DATU-18C.** 35¢
Violet fls; spineless.
—**Chalybara.** **DATU-18CT.** 35¢
Thorny.
—**Trumpet-in-Trumpet.** **DATU-30.** 25¢
Chloranthe Golden Queen. Ruffled double yellow fls; HA. **Oz.** \$1.50.
—**Mixed Datura.** **DATU-X.** 25¢
—**texana.** **DAUB-3.** 30¢
—**T-ipefii.** **DAUB-4.** 30¢
Orange-red with scarlet standards; in drooping racemes; 6 ft; HHSH.

DAVALLIA. (dav-VAL-lee-uh)
Polypodiaceae. Small tropical ferns; grown in hanging baskets or fern balls.
—**bulata.** **DAVA-3.** 50¢
Squirrel-foot Fern.

DAVIESA.
Leguminosae. Showy Australian shs; have hard seed coats; hot water and leave 3-4 days; when some begin to sprout plant immediately.

—**corymbosa.** **DAVI-3.** 30¢
Narrow-leaf Butter Pea. Yellow pea-shaped fls covering the 2-5 ft. shrub; Aust.

DECAISNEA. (dek-KAY-nee-uh)
Lardizabalaceae. Asian shs; flowers in panicle racemes followed by ornamental fruits.
—**Fargesi.** **DECA-4.** 60¢

DECODON. (DEK-oh-den)
Found in swamps and about ponds; Me to Fla.

—**verticillatus.** **DECO-1.** 30¢
White Willow, Swamp Loosestrife. Rose-purple fls 1" ac; 8 ft; July-Sept; HP.

DELONIX. (de-LON-ix)
Trees with showy orange and scarlet fls in racemes; grown only in the far S. They have been classed, incorrectly, as Poinciana and Caesalpinia. D. regia is the commonly grown Royal Poinciana of the far South.

—**regia.** **DELO-1.** 35¢
Royal Poinciana; Peacock Flower; red fls; very showy; (IX); 400 seeds per lb. **Oz.** 75¢; **lb.** \$6.00.

(Ronald Tweet of Chicago, 37, Ill., writes that scratching along the side of the seed with a pin will make the seed germinate in 3-5 days with bottom heat and the same lot of seed, soaked in water, are still ungerminated after 8 weeks.) We tried this out and it worked.

DESMODIUM. (des-MOH-de-um)
Tick Trefoil. Leguminosae. Plants, often woody at the base, grown in the border or wild garden; fls in racemes.

—**motorium.** **DESM-12.** 30¢
(gyrans). Telegraph Plant. Grown in the GH; treat as an annual; 4 ft; a very pretty shrub with its small lateral leaflets that are sensitive to the touch; HP.

DEUTZIA. (DEWT-see-uh)
Saxifragaceae. Himalayan shs; attractive and showy; sow seeds in spring; they also are good pot plants for forcing in a cold GH, 45 degrees, F; sow seed in pots or pans, Feb.

—**gracilis.** **DEUT-12.** 30¢
6 ft sh; pure white fls. **Oz.** 60¢; **lb.** \$4.50.
—**hypoglauca.** **DEUT-15.** 35¢
Sh to 6 ft; white fls in many-fl corymbs; China. **Oz.** 90¢.

—**scabra.** **DEUT-38.** 50¢
c(renata) Pretty white fls. **c. s. Oz.** 50¢; **lb.** \$6.00.

—**Sieboldiana.** **DEUT-42.** 40¢
Sh to 6 ft; fls 1/2" ac, white, in loose panicles, Japan. **Oz.** 90¢; **lb.** \$6.00.

—**Vilmorinae.** **DEUT-45.** 50¢
White fls, 1" ac; 6 ft; China. **Oz.** \$1.90.

DELPHINIUMS

Larkspur. (del-FIN-ee-um). Ranunculaceae. A large number are very showy fls for the border. The large flowering garden strains are usually started in August or early spring just so they get rooted by freezing weather. Keep the seed flat in a shady place till the seedlings appear. Fresh seed is available in late August.

PLEASE NOTE: All Delphinium seed received from us should be planted at once or placed in the refrigerator till used.

PACIFIC GIANT STRAIN:

These are the most popular of all the Delphiniums; they are about 65% mildew resistant and 100% double.

- Black Knight.** **DELP-1K.** 50¢
Darkest violet with black bee; 2 1/2" ac.
—**Blue Bird.** **DELP-1B.** 50¢
True blue with white bee.
—**Blue Jay.** **DELP-1J.** 50¢
Clear medium to dark blue with contrast-

ing bee.

—Cameliard.

DELP-1C. 50¢

Clear lavender self with white bee; 3" ac.

ASTOLAT SERIES

DELP-1T. 90¢.

Although this new group of novel shades was introduced in 1950, the seed produced this year is far ahead of the original production. Color variations extend from pale blush through all shades of lilac-pink to deep raspberry-rose with large fawn and black bees for contrast.

—Galahad.

DELP-1W. 50¢

Giant white fls with white bee.

—Guinevere.

DELP-1G. 50¢

Clear pink-lavender self with white bee.

—King Arthur.

DELP-1A. 50¢

Rich royal purple; large white bee.

—Lanceolate.

DELP-1L. 50¢

Clear lilac self with white bee; a rare Delphinium color.

—Percival.

DELP-1P. 50¢

Large glistening white; strong contrasting bee.

—Round Table.

DELP-1R. 50¢

All the colors plus many beautiful hybrids.

—Summer Skies.

DELP-1S. 50¢

Light sky blue with white bee.

—Series Blend.

DELP-1X. 50¢

Hand made blend of just the above series.

PRICE: Any of the above: ½ Oz. \$2.60, Oz. \$5.00; lb. \$50.00.

BELLADONNA: This class is not as tall nor as large flowered as the Pacific Giants but they are easier to grow and will stand up better and require less care; they are also much better for the South; for GH growing sow Jan. 1st; clumps benched in GH during Oct. and kept at 45-50 F, gives good fls by April.

—True Type.

DELP-2B. 25¢

Clear blue; nice strong plants. Oz. \$2.00.

—Cliveden Beauty.

DELP-2C. 25¢

Lovely turquoise-blue; 3 ft; excellent cut. Oz. \$1.20.

—Improved Strain.

DELP-2V. 25¢

A deep blue; 3 ft. Oz. \$3.00.

—bellamosum.

DELP-2M. 25¢

Rich deep blue with white bee; 2" fls.

Oz. \$2.00.

—Sapphire.

DELP-2S. 30¢

Lighter and brighter than Bellamosum, golden bee; large florets; fine for cutting. Oz. \$4.00.

—Mixed.

DELP-2X. 25¢

Any of above: Oz. \$1.60; lb. \$12.00.

—Hollyhock Strain.

DELP-2H. 35¢

Has very long spikes, densely covered with flowers; comes in light colors, mixed. Oz. \$2.25; lb. \$24.00.

—Blackmore and Landon. Delp-2BL. 60¢
A very large flowered strain of hybrids in exquisite colors; the English version of the Pacific Giants. Oz. 2.00; lb. \$23.00.

CHINENSIS: While these are perennial they are best treated as annuals from early started seed. They are robust growers and rarely need staking; fine cut.

—Azure Fairy.

DELP-3A. 25¢

Dwarf azure-blue; 1 ft. Oz. 90¢.

—Blue Mirror.

DELP-3M. 25¢

A new type; light blue, without spurs

**GIANT DELPHINIUMS**

and fls facing upwards. Oz. \$1.50.

—White Mirror.

DELP-3MW. 30¢

A 1956 introduction; pure white variety, without spurs; large fls. ½ Oz. \$1.40.

—Blue Butterfly.

DELP-3B. 25¢

Wild Larkspur. HA; 3 ft; spikes light Dwarf; ultramarine-blue; 1 ft. Oz. 90¢.

—White Butterfly.

DELP-3V. 25¢

Blooms first year from seed; white; bedding or border. Oz. 90¢.

—Cambridge Blue.

DELP-3C. 25¢

Rich belladonna blue; 15". Oz. \$1.00.

—Tall Blue.

DELP-3T. 25¢

Grows 24-30 inches; good cut. Oz. 90¢.

—Tall White.

DELP-3W. 25¢

Grows 2-3 ft; bedding or cut.

—Dwarf Mixed.

DELP-3DX. 25¢

—Tall Mixed.

DELP-3TX. 30¢

Any of Above: Oz. \$1.60; lb. \$12.00.

DELPHINIUM SPECIES:

—alpinum.

DELP-2. 50¢

—bicolor.

DELP-9. 35¢

Erect western sp; 20 in; blue; dies done during the summer months; HP.

—Brownii.

DELP-10. 50¢

—Bulleyanum.

DELP-12. 40¢

Deep blue fls; 4-5 ft; China.

—cardinale.

DELP-16. 40¢

The Scarlet Delp. Erect; 2-3 ft; bright scarlet with yellow petals. Oz. \$2.00.

—carolinianum.

DELP-18. 40¢

blue; fls early sp; rich moist soil. ½ oz. 50¢

—cashmerianum.

DELP-20. 50¢

Dwarf; blue; 10"; RG; Himalayas; HP; best germination had with Feb. sown seed.

—decorum.

DELP-32. 40¢

A deep purple species; 4-6"; RG.

—incanum.

DELP-52. 40¢

—macrocentron.

DELP-58. 50¢

Flowers hanging; blue or yellow; 5 ft; South Rhodesia.

—Menziesii.

DELP-59. 50¢

Deep blue; western U. S. sp; 4-5 ft; HP; best sown in Feb.

—nudicaule, Red Cardinal. Delp-62R. 35¢

Rich scarlet flowers; long spurs; 1 ft; RG; Oz. \$3.00.

—Chamois.

DELP-62C. 35¢

- luteum.** DELP-62Y. 40¢
Rare; lemon-yellow flowers
- Orange Queen.** DELP-62Q. 40¢
Bright orange flowers; Oz. \$4.00.
- Scarlet.** DELP-62S. 35¢
—**orientale.** DELP-65. 40¢
Violet-blue; HA.
- paniculatum.** DELP-69. 35¢
Violet-blue fls; 3 ft; HA.
- Parryii.** DELP-71. 40¢
Deep blue; S. Calif; 3 ft.
- sulphureum.** DELP-95. 35¢
- vestitum.** DELP-102. 50¢
Himalayan Larkspur. Profusion of pale blue flowers.
- Welbyi.** DELP-103. 50¢
Blue; 2 ft; fls 2" ac; Abyssina.
- yunnanense.** DELP-104. 75¢
True species; deep blue, long racemes; China; 3 ft; HP.
- Zaili.** DELP-105. 60¢
(D. sulphureum). Primrose-yellow fls; 2 ft; HP; best sown in the fall to germinate in the spring.

- DIANELLA.** (dye-an-NELLuh)
Liliaceae. Fibrous rooted perennials and grown outdoors in the S or in a cool GH; sow seeds in the spring, over heat. ,
- intermedia.** DIAL-4. 40¢
Greenish or purplish white fls in panicles; 2 ft long; has creeping root stock; (X); N. Z.
 - revoluta.** DIAL-6. 40¢
Flax Lily. Thick clumps of Rush-like vs; small blue fls on stalks well above fol.

DIANTHUS

(die-ANTH-us) Pinks, Carnations, Sweet William. Caryophyllaceae. A very large genus with many types and varieties. They are rather hardy and range in height from very low plants to 3 ft.; they have one common requirement—never cover the tops with a winter mulch. Shearing plants in the spring tends to keep them in shape; start the annual kinds as early as possible in the spring but the perennials can be started any time up to Aug; germ. 10-14 days; all Dianthus definitely requires lime, use it liberally in the form of limestone; do not use lime containing Magnesia.

D. BARBATUS: Sweet Williams. While they are perennial they are best treated as biennials; 1-2 ft; makes cut-flowers late in the season; sow seed in April or May, thinly and prick out early; they can be started also in July or August.

Flowers striped red. $\frac{1}{4}$ Oz. \$4.00.

WEE WILLIE

A distinctly new strain of annual Sweet William that is ultra dwarf and compact in habit, making it ideally suited for use as an edging plant.

Single flowers are nearly an inch across, borne in clusters of 4-6 flowers. There are self, zoned and edged flowers in gay combinations of crimson, ruby, deep rose-pink and white. Peak bloom is about 8 weeks.

Plants are compact, 4-6 inches high and 4 inches across. Early planting is recommended. A real addition to edging plants.

—**WEE WILLIE.** DIAN-17WW. 35¢
 $\frac{1}{4}$ Oz. \$2.25; Oz. \$8.00.

- auricula-eyed, Mixed.** DIAN-17AX. 25¢
All with large white eye.
- Dunnettii.** DIAN-17D. 25¢
Blood-red fls; best of this type.
- Harlequin.** DIAN-17H. 25¢
White, rose and red shades on the same flower head; pretty.
- Holborn's Glory.** DIAN-17B. 25¢
Very large fls; white and white margin.
- Hunt's Perfection.** DIAN-17P. 25¢
Auricula-eyed fls; fine.
- Indian Carpet.** DIAN-17K. 30¢
Dwarf single in bright colors; mixed. $\frac{1}{2}$ Oz. 80¢.
- Johnson's Diadem.** DIAN-17J. 25¢
Brilliant dark scarlet with large white eye.
- Newport Pink.** DIAN-17N. 25¢
A beautiful single salmon-rose.
- nigrescens.** DIAN-17G. 25¢
Dark red with dark lvs. $\frac{1}{2}$ Oz. 75¢.
- Pink Beauty.** DIAN-17R. 25¢
Charming strain in shades of salmon-pink
- salmones.** DIAN-17M. 25¢
Beautiful salmon variety.
- Rose.** DIAN-17Z. 25¢
- Scarlet Beauty.** DIAN-17S. 25¢
Brilliant scarlet.
- Single Dark Crimson.** DIAN-17C. 25¢
- White Beauty.** DIAN-17W. 25¢
- Dw. Comp. Single Mix'd.** DIAN-17SX. 25¢
- Double Mixed.** DIAN-17DX. 25¢
Any of above varieties except as noted: Oz. 60¢; lb. \$4.00.

D. CARYOPHYLLUS: The various strains and types of Carnations come under this species. Most are not real hardy in the (IV) zone but can be grown never the less in many gardens with a little protection. Space plants 1 ft. apart and get them started well before winter.

- Giant Perpetual.** DIAN-12P. 35¢
Clove Pinks. Large flowers in several colors; clove scented; HP.

CHABAUB CARNATIONS:

Everblooming Carnations; sow seed indoors during Jan.-Feb., if possible. The most popular; my seed is grown in France where the very best Carnations are produced; HHP.

- Avranchin.** DIAN-12CA. 35¢
Yellow striped red.
- Cardinal Red.** DIAN-12CC. 35¢
Beautiful red shades.
- Double Rose.** DIAN-12GZ. 30¢
An extra double strain.
- Jeanne Doinis.** DIAN-12CJ. 35¢
A pretty pure white variety.
- Etincelant.** DIAN-12CT. 35¢
Bright scarlet; 90% double
- Giants of Nice.** DIAN-12CG. 35¢
Robust giants; 90% double.
- Legion of Honor.** DIAN-12CF. 35¢
Salmon-rose.
- Marie Chabaub.** DIAN-12CY. 35¢
Pure yellow.
- Nero.** DIAN-12CN. 35¢
Blood-red flowers.
- Orange Sherbers.** DIAN-12S. 50¢
A new, ery interesting addition to the Chabaub Carnations. Petals are striped and flushed with scarlet on an orange-apricot ground.
- Rose Queen.** DIAN-12CQ. 35¢
One of the best rose-colored varieties.
- Ruby.** DIAN-12CR. 35¢
Dark red.
- Simon's Triumph.** DIAN-12SM. 30¢

A beautiful hardy double Carnation in all the best colors; a superior strain. Oz. \$2.50.

—Mixed. DIAN-12X. 30¢
 ½ Oz. \$2.00; Any of the varieties above:
 ¼ Oz. \$2.25.

GIANT OF PROVENCE:

These are noted for their vigor and stout stems.

—Esterello. DIAN-12PE. 50¢
 A pretty white.
 —Calendal. DIAN-12PC. 50¢
 Light scarlet color.
 —Mireille. DIAN-12PM. 50¢
 Bright rose color.
 —Tavon. DIAN-12PT. 50¢
 Purple.
 Above varieties: \$2.50 per Oz.
 —Mixed. DIAN-12PX. 50¢
 Ounce \$2.25.

EN FANT DE NICE:

—Enfant de Nice, Mixed. DIAN-12E. 30¢
 75% true; 90% double; beautiful strain.
 ¼ Oz. \$4.00.
 —Striped. DIAN-12ES. 30¢
 —Mixed. DIAN-12CX. 35¢

—Teicher's Strain. DIAN-12T. 40¢
 Hardy Grenadin Carnations. Extre large flowered, mixed; fine color range; strong stems. Oz. \$5.00.
 —Carnation Blend. DIAN-12X. 30¢
 A blend of all types of Carnations.

GRENADIN CARNATIONS:

These are a more hardy type Carnation; best for the border; 15 in. high; excellent.
 —King of the Blacks. DIAN-12GK. 30¢
 Dark velvety brown.
 —Rosy Morn. DIAN-12GR. 40¢
 Pretty rose.
 —Scarlet Morn. DIAN-12GS. 30¢
 Best red variety.
 —White Queen. DIAN-12GW. 35¢
 —Yellow Queen. DIAN-12GY. 30¢
 —Striped. DIAN-12GD. 50¢
 Red stripes.
 —Dwarf Grenadin, Mix. DIAN-12GDX. 25¢
 —Blend. DIAN-12GX. 35¢
 Oz. \$2.50; Varieties: ½ Oz. \$2.00.

—COLORAMA. DIAN-13C. 35¢
 A new dwarf compact strain of large flowered double blooms in the finest mixed colors; 5 inches high. ½ Oz. 90¢.

D. HEDDEWIGII: Hardy annual Pinks.

Very easily grown and they come in some the prettiest and brightest colors imaginable; they are very showy.

—Fireball. DIAN-13HF. 35¢
 Deep scarlet; double. ½ Oz. 90¢.
 —Gaiety. DIAN-13G. 25¢
 An attractive mixture of large lacinated single fls with colored zones. ½ Oz. 75¢.
 —laciniatus. DIAN-13HL. 30¢
 Single lacinated fls; finest mixed. Oz. 80¢; 4 oz. \$3.00.
 —Snowball. DIAN-13HLS. 30¢
 Double blooms in lacinated petals; white. Oz. 90¢.
 —DOUBLE Mixed. DIAN-13HLD. 30¢
 Carnation shades. Oz. 90¢.
 —Dwarf Single Mixed. DIAN-13SX. 25¢
 —Westwood Beauty. DIAN-13HW. 30¢
 —Brilliant Blend. DIAN-13BX. 25¢

Plain edged; beautiful colors. ½ Oz. 75¢.
 —nana giganteus, Mixed. DIAN-13NX. 35¢
 New branching habit; 6" high, flowering all summer; bright red, deep rose, mauve and white with purple borders; good for potting; RG or border
 —Double Finest Mixed. DIAN-13HDX. 35¢
 Oz. 95¢; 4 oz. \$3.00.

MARGARET CARNATIONS:

Easily grown and considered the most satisfactory Carnation for the average garden. It is early and, except where the winters are severe, it will live 3-4 years; if started early, it will flower the same season.

—Choice Mixed. DIAN-12MX. 25¢
 Double flowers. Oz. \$2.00.
 —New Giants, Mixed. DIAN-12MNX. 25¢
 (Malmaison). Finest mixed. Oz. \$2.00.

Hardy Dwarf Carnations: These are biennial but best treated as annuals and if started early will flower the same season; they are excellent for summer bloom; 15"; double; bright colors.

—Dwarf Vienna, Rose. DIAN-12VZ. 25¢
 —White. DIAN-12VW. 25¢
 —Saier's Scarlet. DIAN-12VS. 30¢
 A new bright scarlet variety; an improvement over past varieties.
 —Mixed. DIAN-12VX. 25¢
 Any of above: Oz. \$2.50.
 —Crimson Belle. DIAN-13HC. 35¢
 —Eastern Queen. DIAN-13HE. 35¢
 —Japanese Pinks. DIAN-13SX. 30¢

HYBRID PINKS:

—Sweet Wivelsfield. DIAN-66W. 25¢
 (D. Allwoodii x barbatus) Has all colors except yellow and blue; bushy habit; it is better than Sweet William in the warmer sections; bes started in mid-March, but any time is all right; it is hardy; HP.
 —Double, Mixed. DIAN-66WX. 30¢
 —La Bourbrille. DIAN-68B. 25¢
 Very dwarf silver mats; pink fls; 12"; HP.

D. PLUMARIUS: Grass or Clove Pinks.

This is one of the best species for the border. They grow about 12" high and in both double and single flowers; the singles make a beautiful show in border. They all have a contrasting eye; are real hardy; germinate in 5 days.

—semperflorens. DIAN-99S. 25¢
 Florist Perpetual Pinks. Mixed. Oz. 90¢.
 —Cyclops. DIAN-99C. 25¢
 Dark rose shades with carmine ring.
 —Dwarf Harlequin. DIAN-99DH. 25¢
 Single perpetual; very pretty
 —Mayflower. DIAN-99M. 30¢
 An early strain; dwarf; double, mixed. Oz. \$2.00.
 —White fl. pl. DIAN-99WD. 25¢
 —Scoticus., Mixed. DIAN-99S. 25¢
 Florist strain in many choice colors and bright eye. Oz. \$2.00.
 —Spring Beauty. DIAN-99B. 25¢
 A grand flower blend of extra double Carnation-flowered Pinks with many attractive colors and shades. ½ Oz. \$2.00.
 —White. DIAN-99W. 30¢
 Pure white.
 —Plumarius Mixed. DIAN-99X. 25¢
 Oz. \$2.00; lb. \$22.00.

SINENSIS: China or Indian Pinks.

—Single, Mixed. DIAN-135SX. 30¢
 Oz. 75¢; 4 oz. \$2.00.

- Double Dwarf, Mixed. DIAN-99DX. 40¢
Extra dwarf, giant flowered. 1/4 Oz. \$1.50.
—Double, Mixed. DIAN-13SDX. 30¢

DIANTHUS SPECIES:

- Allwoodii. DIAN-2. 40¢
Hybrids in a good color range; much like Plumarius; RG. 1/2 Oz. \$1.50.
—alpinus. DIAN-5. 30¢
Flowers 1 1/2" ac; stems 2-4" various colors with eye; HP. Oz. \$1.00.
—albus. DIAN-5A. 30¢
This species is very variable due to crossing, but this strain is collected in the Alps from true stands.
—anatolicus. DIAN-6. 35¢
Rose; 1 ft; HP.
—arenarius. DIAN-9. 35¢
Fringed fls; frag; white, cream, pink; 6"; HP.
—atrorubens. DIAN-15. 50¢
A dark red race; Alps.
—blandus. DIAN-17. 50¢
—caesius: see *D. gratianopolitanus*.
—capitatus. DIAN-10. 50¢
—carthusianorum. DIAN-11. 40¢
Clusterhead. Like Sw. Williams; many colors; 20"; HB.
—tenuifolius. (Schur) DIAN-11T. 50¢
—tristis. DIAN-11R. 40¢
Collected in Bosnia.
—crinatus. DIAN-40. 35¢
Solitary white fls; 12"; HP. 1/2 Oz. \$1.50.
—cruenaeus. DIAN-43. 50¢
Blood-red terminal fls on 18" stems; HP.
—deltoides. DIAN-45. 25¢
Maiden Pinks. Small rosy purple fls; turf-like foliage; 6"; HP.
—alba. DIAN-45A. 30¢
—Bowl's Variety. DIAN-45B. 30¢
Bronze foliage; vivid carmine fls; HP.
—Brilliant. DIAN-45L. 25¢
A brilliant rich rose-pink; 6"; HP.
—erecta. DIAN-45E. 30¢
Crimson fls on short erect stems; fine for RG.; 1/2 Oz. 80¢.
—gracilis: see *D. carthusianus*.
—graniticus. DIAN-58. 40¢
True: fls 1" ac; purple; 6"; Pyrenees; HP.
—gratianopolitanus. DIAN-59. 40¢
Cheddar Pinks. Mat forming; 8"; showy double rose; HP. 1/8 Oz \$4.00.
—grandiflorus. DIAN-59G. 30¢
Pink: for RG. 1/4 Oz. \$1.50.
—splendens. DIAN-59S. 30¢
Purple fls. 1/4 Oz. \$2.00.
—gravenolens. DIAN-60. 30¢
Clusterhead.
—Hoppii. DIAN-66. 40¢
White fls tinged pink, deeply lacinated; cushion; HP.
—hyssopifolius. DIAN-67. 30¢
(*D. monspessulanus*). Deeply fringed; fragrant; mixed; HP.
—Kantabii. DIAN-70. 40¢
Robust, mat-forming; small white fls; 12".
—Knapii. DIAN-71. 30¢
Lemon-yellow; the only yellow Dianthus. 1/16 Oz. \$1.00.
—latifolius. DIAN-73. 40¢
Erect; 12"; rose to dark red; HP.
—latifolia atrococcineus. DIAN-73A. 30¢
Deep blood-red flowers.
—microlepis. DIAN-75. 75¢
Dwarf HP; rose colored: high mts of Bulgaria.
—Libschitzianus. DIAN-76. 40¢
White fls; 12"; HP; Caucasus.
—monspessularius: see *D. hyssopifolius*.
—mossii. DIAN-85. 35¢
Tufted. 2" high; Macedonia.
—neglectus. DIAN-89. 40¢

Glacier Pink. Small crimson-pink fls. with lighter eye.

- nipponicum, Red. DIAN-74. 35¢
Annual type from Japan; beautiful single flowers.
—White. DIAN-74W. 35¢
—Mixed. DIAN-74X. 30¢
—noronus. DIAN-88. 50¢
—prolifer. DIAN-101. 50¢
Little carmine-pink fls; small heads; 1 ft; RG; HA.
—Roisii. DIAN-108. 50¢
Showy tufted small Pink; not entirely true from seed; rose colored fls
—Seguieri. DIAN-111. 40¢
A variable type of *D. chinensis*.
—suarrosus. DIAN-117. 50¢
Cespitose; rose fls; Siberia.
—stenopetalus. DIAN-116. 50¢
—Sternbergia. DIAN-118. 40¢
Rose and spotted fls; fragrant; Alps; HP.
—subneglectus: see *carthusianum pumilus*. (11)
—strictus nitiger. DIAN-119N. 40¢
Small white fls; 10 in; HP.
—superbus. DIAN-125. 30¢
Red fls; excellent for cutting; 24"; HP.
—sylvestris. DIAN-126. 50¢
Wood Pinks. Rose, 1 in. ac; 10 in. tall; HP.
—tenuifolius: see *D. carthusianorum*.
—trifasciculatus. DIAN-131. 35¢
Clusterhead. Purple fls in dense heads; 2 ft; HP.
—vaginalus. DIAN-135. 40¢
—zonatus. DIAN-165. 50¢
—Species Mixed. DIAN-SX. 40¢
—Mixture of Above. DIAN-5. 40¢

DIASCIA. (dye-ASS-nee-uh)
Scrophulariaceae. Twin-Spur. Low slender plants from S. Af. Good for both the border or pot culture; easy.
—Barberae. DIAS-1. 35¢
Coral-pink, Nemesia-like fls with 2 spurs; unusual and most attractive; 9"; HHA. profuse bloomer. 1/2 Oz. \$2.00.

DICENTRA. (dye-SENT-ruh)
Bleeding Heart. Fumariaceae. Perennials with rose, yellow or white fls in racemes, thriving in rich soil; germination slow.
—chrysanthae. DICN-3. 50¢
—eximia. DICN-6. 50¢
Rose or pink fls; 2 ft; lvs basal; HP. 1/4 Oz. \$2.00.
—formosa. DICN-8. 50¢
Rose-purple fls; short sprrs; 1 1/2 ft; HP.
—oregana. DICN-10. 50¢
(*Glaucia*) Gray foliage and creamy pink locklets 8"; HP.
—spectabilis. DICN-13. 40¢
Bleeding Heart. Rosy red fls; 2 ft; HP. start seed in cool GH during Winter, best. 1/8 Oz. \$4.00.

DICKSONIA. (dik-SOH-in-ah)
Dicksoniaceae. GH tree ferns hardy only in frost-free sections.
—fibrosa. DICK-4. \$1.00
Good GH fern in junival stage; grows to 50 ft. fronds 8 ft long; rather hardy for far South.
—punctilobula. DICK-6. 50¢
Hayscented Fern. Very vigorous grower 1 1/2-2 ft; shade or open.
Plants: 50¢ each; 3, \$1.40. Prepaid.

DICRANOSTIGMA.
(die-kray-no-STIG-ma). Papaveraceae.
Plants from Central Asia with orange or yellow fls; best in a light soil

—Franchetianum. DICR-1. 25¢
Pretty bright fls, 1" ac; 1 ft; HB; with
us it volunteers each spring.

DICTAMNUS. (dik-TAM-nus)
Rutaceae. Gas Plant; Burning Bush;
Fraxinella. A garden favorite that makes
large clumps with good sized and showy
flowers with a strong lemon scent. They dis-
like transplanting and enjoy a rich soil; seeds
germinates very slowly; they require plenty
of freezing and often germinate 2nd year;
shade seed bed during summer and keep
moist.

—albus. DICT-1. 25¢
White flowers; HP.
—rubra. DICT-1R. 35¢
Rosy purple fls.

DIDYCUS: see **Trachymene.**

DIDYMAOTUS.
Aizoaceae. (Mesembryanthemum). One
stemless succulent from S. Af.

—lapidiformis. DIDY-4. 50¢
Very interesting and attractive but diffi-
cult to grow; solution to the trouble may
be in use of lights at night.

DIERAMA. (dye-er-RAY-muh)
Iridaceae. S. Af. cormous plants hardy
only in the South (IX); for culture same as
Ixia or they can be grown under glass in N.

—Hybrids. DIER-1. 25¢
—pendula. DIER-2. 30¢
Basal lvs; white to mauve fls in drooping
spikes; TBb.
—pulcherrima. DIER-3. 30¢
Bright purple fls; drooping spikes; 4 ft.
—Mixed. DIER-X. 25¢

DIENTE: see **Moraea.**

DIGITALIS

Scrophulariaceae. Fox Glove. Erect bien-
nials and perennials favorites in the garden.
Their stately spikes, 3 ft. high are
crowded with thimble-like flowers, beautifully
spotted. They are easily grown from seed
sown in the spring or up to August for fls
the following season. (dig-i-TAY-lis).
—**PURPUREA:** The common Foxglove. It
is a biennial and there are many improved
forms and varieties being introduced in
this species.

EXCELSIOR HYBRIDS. DIG-1E. 30¢

A new strain with fls all around the stem;
fls beautifully marked in various colors.
1/8 Oz. 70¢.

—gloxinaeflora. DIG-1. 25¢
Pink spotted fls, more open than in
other forms. 1/2 Oz. 50¢.

—Ivery's Strain. DIG-1V. 30¢
Beautiful spotted fls; new German strain.
1/4 Oz. 60¢.

—The Shirley. DIG-1S. 25¢
A giant hybrid in clear colors; extra
choice; 5 ft. 1/2 Oz. 50¢.

—maculata superba. DIG-1MS. 25¢
A Holland grown strain.
—Spotted Rose. DIG-1Z. 25¢

—morsitosa. DIG-1M. 25¢
Very large strain in mixed colors for the
large border; large Campanula-like upper
flowers; true rosette topped. 1/4 Oz. 50¢.

—White. DIG-1W. 25¢
—purpurea. DIG-1A. 25¢
A collected type from Austria. Oz. 60¢.
—Mixed. DIG-1X. 20¢
A mixture of the above. Oz. 90¢.

OTHER SPECIES:

—ferrugineum. DIG-5. 30¢
Pale yellow fls; fol. covered with brown;
4 ft; HP.

—grandiflora. DIG-7. 35¢
(ambigua) Yellow Foxglove. 3 ft; fls 2"
long, yellow marked brown; HB or HP.

—laevigata. DIG-8. 25¢
A pretty Foxglove with bronzy yellow
fls and whitish lips.

—lanata. DIG-9. 35¢
A rare and showy Foxglove; yellow fls; 2
ft; HP.

—lutea. DIG-11. 30¢
Grecian Foxglove. Fls nearly white; 3 ft;
a rare and showy Foxglove; HB or HP.

—lutzi. DIG-12. 25¢
Hybrids in shades of salmon. 1/4 Oz. 45¢.

—mariana. DIG-15. 40¢
Distinct species with white fls overlaid
with golden chestnut; 3 ft; HP.

—merionensis. DIG-16. 35¢
Different Foxglove; crushed strawberry
colored fls; 3 ft; June-Sept; HP.

—orientalis. DIG-18. 35¢
White fls in small spikes; nice; 12"; HP.
1/2 Oz. \$1.00.

—purpurea. DIG-1PX. 30¢
Common Foxglove. In mixed colors.
1/4 Oz. 60¢.

—Thapsii. DIG-25. 30¢
Purple species with pale throat, dotted
red; June-Sep; 4 ft; Spain; HP.

—Species Mixed. DIG-SX. 25¢

DILL: see **Anethum graveolens.**

DILLENNIA.

Dilleniaceae. Trees of far South.
—indica. DILE-5. 50¢
White fls 6" across; 40 ft; large fruits.
30 seeds to the oz.

DILLWYNIA. (dil-WY-ni-ah)
Leguminosae. Small Heath-like shrubs
native of Australia; hardy in (X) zone.

—cinerascens. DILL-2. 35¢
Gray Parrot Pea. Australia.
—glaberrima. DILL-4. 25¢

DIMORPHOTHECA.

(dye-mor-foh-THEEK-uh). Cape Marigold.
Compositae. S. Af. annual and perenn;
ials; fls are in solitary terminal heads of ray-
and disk-fls; good for garden or border; GH.
Sow indoors March; set out in May.

—Ecklonis. DIM-6. 35¢
(Osteospermum, Ecklonis, new classifica-
tion) HHP or sub-sh; 2 ft; rays white
above, purplish below.

—sinuata. DIM-11. 25¢
(D. aurantiaca). Orange-yellow marked
brown; treat as a HHA.

—Salmon Beauty. DIM-7S. 20¢
Attractive salmon shades. Oz. \$1.00.

—White Beauty. DIM-7W. 20¢
Oz. \$1.00.

—Buff Beauty. DIM-7B. 20¢
Extra dwarf bedding strain. Oz. \$1.50.

—Golden West. DIM-7GW. 20¢
Golden yellow fls. Oz. \$1.00.

—Orange King. DIM-7K. 20¢
Ideal dwarf bedding plant; large orange
fls. Oz. \$1.00.

—Mixed. DIM-7X. 20¢

PLANTS GARDEN HERBS SEE PAGE 93

DIOSPYROS. (dye-OSS-pihr-os)
Trees and shrubs, some with edible fruits and others ornamental. Most species are not hardy in the North.
—**Kaka.** **DIOS-6.** 50¢
Japanese P. Tr to 40 ft; orange fruits, 3" as; orange flesh. **Oz.** 75¢.
—**Lotus.** **DIOS-7.** 40¢
Date Plum. Tree to 40 ft; Japan. **Oz.** \$1.00.
—**virginiana.** **DIOS-11.** 30¢
Tr. to 50 ft; orange fruits; (IV). **Oz.** 50¢.

DIOSCOREA.
—**villosa.** **DIOS-10.** PLANTS
Yam. Climbing; 4-8 ft; pale greenish yellow fls; shade or part. **PLANTS:** 50¢ each; \$3-1.00; 10-\$3.50, postage extra.
DIPLAZIUM. (dip-LAY-zee-um)
Polypodiaceae. Ferns resembling Aspleniums; suitable only for GH growing; tropical.
—**benlance.** **DIPL-2.** 50¢

DIPLARRHENA.
Iridaceae. Tender Aust. and Tasm. plants belonging to the Belameanda and Sisyrinchium group.
—**Moraea.** **DIPL-1.** 30¢
2 ft; whitish fls; similiar to the Moraeas.

DIPSACUS.
Teasel. Dipsacaceae. Tall biennial plants.
—**syvestris.** **DIPO-16.** 40¢
Common T. Used by fullers in raising nap of wollen cloth.

DISANTHUS.
Hamamelidaceae. One species from Japan.
—**cercidifolius.** **DISA-1.** 50¢
Round heart-shaped lvs, turning to dark purple; beautiful fls like Witch-hazel; sh to 20 ft; hardy. **Oz.** \$2.00.

DISPORUM. (dis-POH-rum)
Fairly-Bells. Lilaceae. Per. plants found in woods and grown in the wild garden. Flowers are solitary or in umbels, followed by a berried fruit; germination slow.
—**lanuginosum.** **PLANTS ONLY**
Fairybells. Decid; 1-3 ft; greenish fls at end of branches; red fr; shade. **PLANTS:** 70¢ each; 3 for \$1.15.
—**oreganum.** **DISP-6.** 25¢
Creamy white fls; 2 ft; HP.

DISTYLIUM.
Hamamelidaceae. Ev. shs and trs from Asia; not hardy in N; fls small bracts without petals.
—**cermosum.** **DIST-5.** 40¢
Grown as a shrub; fls with red anthers in racemes, 3" long; Japan. **Oz.** 80¢; lb. \$4.

DODECATHEON. (doh-dek-KAYTH-ee-on)
Shooting Stars. Primulaceae. Small Am. perennials with nodding Cyclamen-like flowers in umbels on spikes; best in well drained places with a little shade; they are pretty.
—**boroniaefolia.** **DODE-3.** 50¢
—**Meadia.** **DODE-17.** 50¢
Reddish yellow fls with purple anthers; 6"; HP. **PLANTS:** 45¢ each; 3-\$1.25.
—**pauciflorum.** see **D. vulgare.**
—**Dodecatheon Blend.** **DODE-X.** 25¢

When writing about an order try to list the itims in question; we can locate faster.

DODONAEA. (dod-doh-NEE-uh)
Sapindaceae. Natives of warm regions.
—**aienuata.** **DODO-1.** 35¢
10 ft sh; fls in short racemes; bronze-red seed vessels; Australia.
—**adenophora.** **DODO-2.** 50¢
4-5 feet high; Australia.
—**cuneata.** **DODO-4.** 25¢
Wedge-leaf Hop Bush. Sh to 6 ft; sandy loam; sun; Australia.
—**lanceolata.** **DODO-6.** 50¢
—**fruncatiales.** **DODO-11.** 40¢
6-8 feet high; Australia.
—**viscosa.** **DODO-12.** 50¢
Shrub or small hardwood tr; small greenish fls followed by flat winged seeds; 15 ft; (X); N.Z.
—**ripsea.** **DODO-12Y.** 40¢
Beautiful autumn tinted tree; hybridized from the native species; N. Z.
—**purpurea.** **DODO-12P.** 50¢
Attractive plant with bright purplish red foliage and showy winged seed of same color; rapid grower; does well in dry spots; 12 ft; (X); N. Z.

DOLICHOTHELE.
This genus should be in with Mammillaria, according to some authorities.
—**sphaerica.** **DOLP-3.** 50¢
—**Baumii.** **DOLP-6.** 60¢
—**uberiformis.** **DOLP-16.** 50¢
Central Mexico; 4 inches high.

DOLICHOS. (DOL-i-kos)
Leguminosae. Rapid growing climbing annuals. 10 ft or more, with Wisteria-like fls followed by attractive pods; dislike transplanting; all TA; sow in the spring.
—**Prolific White.** **DOLC-3PW.** 35¢
Young pods can be used as snap beans.
—**Red Flowering.** **DOLC-3R.** 35¢
Young pods can be used as snap beans; from Japan.
—**Lablab.** **DOLC-4.** 25¢
Hyacinth Bean. Purple or white fls; fast growing climber; (LAB-lab). **Oz.** 60¢; lb. \$3.30.
—**White.** **DOLC-4W.** 30¢
Pure white; large clusters. **Oz.** 55¢.
—**enormis.** **DOLC-4E.** 25¢
White Pearl. Very large fruits. **Oz.** 50¢.
—**sudanensis.** **DOLC-4S.** 25¢
Purple Sudan Hyacinth Bean. Very decorative. **Oz.** 45¢.
—**lignosus.** **DOLC-8.** 35¢
Ev. cl; TP; rose-purple fls.

DORONICUMS

Leopard's Band. Compositae. Herbaceous perennials, daisy-like flowers in yellow; it blooms early in the spring; prefers sun and a rich soil; easy; (doh-RON-i-kum).
—**caucasicum.** **DORO-2.** 25¢
Golden yellow; 2 ft; border; HP. ¼ Oz. \$2.00.
—**magnificum.** **DORO-2M.** 30¢
A more robust type with larger heads. 3 ft; HP. ¼ Oz. \$2.00.
—**Mixed** **DORO-X.** 25¢

DOROTHEANTHUS. (dor-oth-ee-ANTH-us)
Aizoaceae. Formerly in Mesembryanthemum; S. Africa.
—**bellidiformis.** **DORT-2.** 25¢
M. criniflorum. Pink, red and white fls; HHA but can be started in a frame in Mar or sown out side during April; thin well; a sunny, well drained soil essential; remove dead flowers.

—**gramineus.** **DORT-4. 25¢**
(*Meibryanthemum*) Pink, rose, white or red fls; TA.

DORYANTHES. (dor-ee-ANTH-eez)
Spear-lily. Asymphyllidaceae. Large succulent plants from Australian deserts; lvs in basal rosettes; for the South.

—**exceisa.** **DORY-4. 35¢**
Grows to 18 ft; lvs sword-shaped, 4 ft; fls 4" long in heads 12" across.

DOUGLASIA. (dug-LASS-ee-uh)
Primulaceae. Tufted perennials; lvs in rosettes; yellow or rose fls; excellent for GH.

—**laev-gaa.** **DOUG-3. 35¢**
Bright red fls; collected 5,000 ft. up Mt. Olympus; HP.

—**montana.** **DOUG-5. 35¢**
Purple or lilac fls; Montana; HP.

—**Mixed.** **DOUG-X. 25¢**

DOVYALIS. (doh-LASS-ee-uh)
Fracourtiaceae. Dioecious shs or small trs; edible fruits; Ceylon; far South.

—**caffra.** **DOVY-1. 40¢**
(*D. aheria*) Kei-apple; Ceylon; used for preserves; (IX).

DOWNINGIA. (down-INJ-ee-uh)
Lobeliaceae. Small plants native of the W. Amer; they are hardy and make nice GH plants or in the border.

—**immaculata.** **DOWN-2. 30¢**
2-4 inch annual; rich soil; sun; HHA.
Star in March.

DOXANTHA. (doh-ANTH-ah)
Bignoniaceae. Amer. vines; will stand few degrees of frost; GH.

—**Unguis-cati.** **DOXA-1. 50¢**
(*Bignonia Tweediana*) Cat's Claw. GH; bright yellow fls 4" ac; (VI). **100 seeds \$1.50**

DRABA. (DRAY-buh)
Cruciferae. Annuals, biennials and perennials; flowers are small and dainty, in white, rose, yellow or purple, in terminal racemes; they are very hardy and excellent in the rockery; if sown late in the fall they germinate quickly in the spring.

—**aloides.** **DRAB-1. 30¢**
Tufted plant; basal rosettes; bright yellow fls; 4"; HP. 1/8 Oz. **\$6.00.**

—**Haynaldii.** **DRAB-31. 40¢**
Yellow fls in racemes; 3½" tall; HP.

—**pyrenaica:** see *Petrocallis pyrenaica.*

—**D-aba Mixed.** **DRAB-X. 40¢**

DRACAENA. (dras-SEEN-uh)
Lilaceae. Shs and trs grown in the GH and out doors in far South; grown mainly for their foliage display.

—**Draco.** **DRAC-4. 50¢**
Dragon Tree. To 60 feet; (IX); **\$3.00 per 100 seeds.**

—**indivisa:** The greenhouse *Dracaena*—see *Cradoylea indivisa.*

DRACOCEPHALUM.
(dray-koh-SEF-ah-um). Dragonhead. Labiatae. Hardy annuals and perennials with blue, purple or white flowers in whorls; they make pretty groups in moist shady spots in the border; easy from seed.

—**diethicum.** **DRPH-6. 30¢**
Erect bushy HA carrying many spikes of long-lasting violet-blue fls; foliage lemon

scented; July-Sept; 1-2 ft; space 1 ft.

—**dostria.** **DRPH-7. 25¢**

—**Forrestii.** **DRPH-8. 35¢**

Blue-purple fls in whorles; 18"; HP; China.

—**Moldavica.** **DRPH-14. 25¢**

Unusual and easily grown HA, with aromatic, balm-scented fol; bright lavender blue fl-spikes; loved by bees; 2 ft. **Oz. 70¢;** Sow out doors during April; blooms July and August.

—**rupeire.** **DRPH-20. 35¢**

—**Ruyschiana.** **DRPH-21. 50¢**

Blue fls; 2 ft; HP; Siberia.

—**tanguticum.** **DRPH-26. 50¢**

Blue fls 1" long; the sp. varies much; Mongolia; 2 ft; HP.

—**Dracacephalum Mixed** **DRPH-X. 25¢**

DROSANTHEMUM. (dros-ANTH-e-mum)

Shrubs with nearly cylindrical lvs; fls medium large, often in masses; easy to grow; among most beautiful; 50 Far. max. winter temperature.

—**bicolorum.** **DROS-3. 50¢**

—**micans.** **DROS-10. 50¢**

—**speciosum.** **DROS-19. 50¢**

Very beautiful species; crimson or orange fls; 18" high.

DROSERA. (DROSS-er-uh)

Sun-dew. Droseraceae. They can be grown under glass; muddy loam and sphagnum is good soil; native of swamps.

—**filiformis.** **DROR-1. 30¢**

Bright purple fls interesting for terrarium; sow in early spring in sand and peat.

—**rotundifolia.** **DROR-15. 40¢**

White flowered form; on scapes 10" high; July-Aug; HP; Alaska.

DRYAS. (DRY-as)

Rosaceae. Mountain Avens. Dwarf evergreen prostrate plants for the rockery; very hardy in well drained porous soils.

—**Drummondii.** **DRYA-1. 50¢**

Clear yellow bells; nodding; HP.

—**octopetala.** **DRYA-5. 30¢**

White fls, 1½" ac; erect; HP.

—**minor.** **DRYA-5M. 50¢**

A very dwarf form; RG.

DRYNARIA: see *Polypodium.*

DRYOPTERIS. (drye-OPP-ter-iss)

Wood-Ferus. Polypodiaceae. Temperate and tropical ferns; some grown in woody places; others in GH; not difficult.

—**dilatata:** see *spinulosa.*

—**Felix-mas.** **DRYO-14. 50¢**

Male Fern. Effective in masses; shade; 10-18 inches.

Plants: 50¢ each; 3 for \$1.40. Prepaid.

—**Goldiana.** **DRYO-17. 50¢**

Goldie Fern. Tallest and largest of the native wood-ferns; shade or part-shade; easy; 2-3 feet.

Plants: 50¢ each; 3 for \$1.40. Prepaid.

—**hexagonoptera.** **DRYO-18. 50¢**

Winged Woodfern. Triangular fronds; sun or shade; 12-18 inches.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**lanceana.** **DRYO-21. 50¢**

Oak Fern. A beautiful tiny 6 inch fern with branched fronds that should go well in any shady moist place where small ferns would do; set root stalk ½-1 inch below surface.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**marginata.** **DRYO-22. 50¢**

Leather Woodfern. Attractive species; 1-

2 ft; part or full shade.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**Pheopteris.** DRYO-32. 50¢

Narrow Beech Fern. Arrowhead-shaped fronds on 6-8 inch stems; another fine fern for moist shady places in border or wild garden; set root stalk $\frac{1}{2}$ -1 inch below surface.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**spinulosa v dilatata.** DRYO-37D. 50¢

Mountain Fancy Fern. Beautiful evergreen fern; best in moist shady places in the border or in the wild garden or woods.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**Thelypteris.** DRYO-38. 50¢

Marsh Fern. Delicate fronds; best in a moist open or semi-shaded place; decid; 9-18 inches.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**Thelypteris.** DRYO-38. 50¢

PLANTS: 50¢ each; 3 for \$1.35.

DUCHESNEA. (dew-KEES-nee-ah)

Indian or Mock Strawberry. Rosaceae. Perennials fro Asia; trailing branches; flowers yellow followed by fruits; used as a ground cover or in hanging baskets.

—**indica.** DUCH-1. 30¢

Very decorative; fruits look like Straw-9-18"; set top root stalk at surface of soil.

—**virginiana.** PLANTS ONLY

Wild Scarlet Strawberry. (Fragaria)

DURANTA. (dew-RANT-uh)

Verbenaceae. Shs and trs; fls in terminal racemes, followed by drupe-like fruits; hardy in far South.

—**Ellisii.** DURA-1. 35¢

—**alba.** DURA-1A. 35¢

—**repens.** DURA-3. 50¢

Pigeon Berry; Sky-flower. (Plumeri) Tr. to 18 ft; (X); 350 seeds to ounce. Oz. \$1.00.

—**variegata.** DURA-3V. 40¢

With variegated foliage.

DUSTY MILLER: see *Senecio leucostachys*, *Artemesia* and *Lychnis coronaria*.

DYCKIA. (DIK-ee-uh)

Stemless succulents, in basal rosettes and with yellow or orange flowers in racemes or panicles; resembles small Centuary plants; belongs to the Pineapple family; see potting soil under Succulents.

—**sulphurea.** DYCK-6. 30¢

Yellow fls, $\frac{1}{2}$ inch long; 1 ft; Brazil; TP.

DYSSODIA.

—**tagetoides.** DYSS-6. 30¢

Native flower of north central Texas on rocky limestone slopes; related to Marigolds.

EBENOPSIS. (eb-en-OP-sis)

Leguminosae. Sub-tropical trees and shs; suitable for mild sections of the country.

—**flexicaulis.** EBEN-1. 30¢

Texas Ebony. Tree or shrub; fragrant yellow fls; S. Texas; 50 seed to ounce.

ECCREMOCARPUS.

(e-krem-oh-KAHR-pus) Glory-Flower. Bigoniaceae. Climbing shrubs from Chila; tubular fls, yellow, orange or scarlet in terminal racemes followed by fruits. Grow it as a tender annual in the North, but it is a perennial in the S; requires a sheltered spot; sow seed indoors during Feb-Mar; grow on in pots till set out in early June.

—**scaber.**

(Calampelis) Orange-red fls; start early;

warm position; 12 ft; fine cl. $\frac{1}{2}$ Oz. \$3.00.

—**aureus.** ECCR-1A. 30¢

Golden yellow flowers.

—**carmineus.** ECCR-1C. 35¢

ECHEVERIA.

(ek-ev-VEER-ee-uh)

Crassulaceae. American succulent plants with broad leaves in rosettes and flowers in spikes, racemes or panicles; culture as with Sempervivums; the lovely grey or variegated lvs are chief attraction altho the fls are interesting.

—**agavoides.** ECHE-6. 50¢

Lvs densely umbricated, 2" long; corolla cone-shaped, reddish with yellow tips; Mex 1,000 seeds \$4.00.

—**carnicolor.** ECHE-28. 50¢

Lvs in dense rosettes, 2" long, tinged red; fls bright red; Mex. 1,000 seeds \$6.00.

—**Derenbergii.** ECHE-47. 50¢

Lvs in rosettes, 1" wide, grayish white, red margins; reddish yellow fls; Mex.

—**elegans.** ECHE-50. 50¢

Stemless; very succulent; pinkish fls, with white tips. 250 seeds \$1.50.

—**glauca.** ECHE-65. 50¢

Fls pinkish, yellow inside; Mex.

—**Peacockii.** ECHE-127. 50¢

(Desmetiana) White lvs tinted blue; purple fls; stemless; Mexico. 1,000 seeds \$4.00.

—**setosa.** ECHE-161. 50¢

Red fls tipped with yellow; Mexico.....1,000 seeds \$6.00.

—**Mixed.** ECHE-X. 50¢

Species mixed. 1,000 seeds \$3.50.

ECHINACEA.

(ek-i-NAY-she-ah)

Cone Flower. Compositae. Native per. closely related to Rudbeckia; bushy growth and daisy-like flower heads, often 6" across; they are fine in the border and for cutting, seed do not germinate evenly; best sown in pots or flats of finely screened soil containing leaf mold, sand and peat moss.

—**angustifolia.** ECHI-1. 30¢

Showy plant for dry border; rose to purple fls; 3 ft; prefers limestone soil; HP; 250 seeds to ounce.

—**purpurea.** ECHI-4. 25¢

Purple Coneflower. Purple cones; 5 ft; HP. Oz. \$1.10.

—**Earliest of All.** ECHI-4E. 25¢

A nice new variety; very early.

—**Hybrids.** ECHI-4H. 35¢

—**secunda glauca.** ECHI-157G. 50¢

Lvs bluish white.

—**Mixed.** ECHI-X. 20¢

ECHINOCACTUS.

(ek-in-oh-KAK-tus)

(WS, CG, NF) Globular with deep ribs; yellow fls with pointed petals; easy; usual soil compost.

—**electracanthus.** ECHK-75. 60¢

—**ingens.** ECHK-103. 50¢

To 5 ft; fls yellow, $\frac{3}{4}$ " long; Mexico.

—**elephantus.** ECHK-103E. 50¢

—**grandis.** ECHK-103G. 50¢

—**Palmeri.** ECHK-103P. 50¢

—**Gruenowii.** ECHK-100. 40¢

To 4 ft high, 2 $\frac{1}{2}$ " diam; yellow fls; Cent. Mexico.

—**visnaga.** ECHK-140. 60¢

ECHINOCEREUS.

(ek-in-oh-SEER-us)

(WS, CG) Most brilliant fls; low growing; easy if on dry side during winter; full sun during growth; porous soil, fairly rich loam.

- armatus*. ECHU-7. 40¢
- Baileyi*. ECHU-8. 60¢
- conglomeratus*. ECHU-21. 60¢
- dasyacanthus*. ECHU-25. 50¢
- Cylindrical, 4-12" high; fls yellow, 4" long; Mexico. ECHU-28. 50¢
- dubius*. Mexico.
- Pale purple fls, 2½" long; Mexico. ECHU-45. 60¢
- Leoneensis*. ECHU-57. 50¢
- Palmeri*. ECHU-60. 50¢
- pectinatus*. ECHU-60P. 50¢
- Purplish fls, 2" long; Mexico. ECHU-72. 50¢
- Paileanus*. ECHU-75. 50¢
- primolanatus*. ECHU-100. 50¢
- Reichenbachii*. ECHU-95. 50¢
- Schwarzii*. ECHU-100. 50¢
- trilochidiatus*. ECHU-95. 50¢
- Fls 2" long; Mexico. ECHU-100. 50¢
- Websterianus*.

ECHINOCYSTIS.

- Cucurbitaceae. Tender annuals and perennials; for arbors and fences; rapid growers.
- lobata*. ECHY-3. 35¢
- Wild Cucumber. Tender annual vine; to 20 ft; fast growing; covers unsightly objects 35 seeds to oz; Oz. 50¢.

ECHINOMASTUS. (ek-in-oh-MAST-us)

- Cactaceae. Globular types similar to Echinocactus and Coryphantha; small Cactus from Mexico.
- durangensis*. ECHT-4. 40¢

ECHINOPS. (e-KY-nops)

- Globe Thistle. Compositae. Thistle-like biennials and perennials with flowers in round heads. They are decorative in the border and easily grown from seed.

- exaltatus*. ECHN-4. 20¢
- (E. Ritro) Steel-blue fls; 2 ft; good everlasting fls; HP. Oz. 50¢; lb. \$4.00.
- ruthenicus*. ECHN-7. 30¢
- A form of E. exaltatus.
- sphaerocephalus*. ECHN-8. 30¢
- Tall; 6-8 ft; heads 2" ac; HP; (V). Oz. 50¢.
- Mixed. ECHN-X. 20¢

ECHINOPSIS. (ek-in-NOP-siss)

- Cactaceae. Sea Urchin Cacti. Low plants.
- mirabilis*. ECHP-56. 35¢
- Cylindrical, 6" tall; white fls, 5" long; Argentine.

ECHINUS.

- Aizoaceae. (Braunsia) Small succulents or shs allied to Mesembrythemum; S. Af.
- edentulus*. (apiculatus) ECHS-5. 50¢

ECHIUM

- Viper's-Bugloss. Boraginaceae. Annuals, biennials and perennials thriving in rather poor soil and sunny spots. Flowers are in blue, purple, rose or white, in coiled racemes. They are warm region plants and are grown out doors in the far South. E. vulgare is a fine bee food in waste places. (EK-i-um).

- Bourgaeum*. ECHM-1. 30¢
- Shrub to 10 ft; (IX). Oz. 65¢.
- fastuosum*. ECHM-4. 50¢
- Shrub; 6 ft; dark blue fls; red stems; (VIII). 100 seeds \$1.00; 1,000, \$3.75.
- Dwarf Hybrids*. ECHM-6D. 25¢
- Mixed blue, lavender and rose shades flowering for months; 1 ft; HA.
- plantagineum*. ECHM-7. 30¢
- Blue and light purple fls; HA or HB; 3 ft. This also makes a beautiful pot pl if

- started in February] at 60 deg. Fah..
- Blue Bedder. ECHM-7B. 25¢
- Oz. 60¢.
- pomponicum*. ECHM-8. 30¢
- rubrum*. ECHM-9. 30¢
- Red fls in narrow panicles; 3 ft; HB. 100 seeds \$1.00; 1,000, \$5.00.
- vulgare*. ECHM-12. 25¢
- Blue Weed. For bee food on poor soil; HA; must be germinated in light. Oz. 50¢; lb. \$1.75.
- Blue Bedder. ECHM-12B. 25¢
- New compact, bright blue fls; 1 ft; HA. Oz. 50¢.
- Mixed. ECHM-X. 20¢

EDGEWORTHIA. (ej-WORTH-ee-uh)

- Thymelaeaceae. Shs from West Asia with dense heads of small fragrant yellow fls.
- papyifera*. EDGE-3. 50¢
- (hrysantha), gardneri) Paper Bush. It needs a rather moist summer; (VII). Oz. 90¢; lb. \$5.00.

EDRAIANTHUS. (ed-er-AN-thus)

- Campanulaceae. Low tufted perennials from the Balkin regions and related to Wahlenbergia. Good RG plant; 6-12" ac; easily grown from seed.
- Pumilio*. EDRA-28. 50¢
- (Wahlenbergia P.) Solitary lilac fls; silver tufts; 1-3 ft high; HHP; Dalmatia.
- Mixed. EDRA-X. 35¢

EGG PLANT: see *Solanum* for ornamental sorts. Others listed in Vegetable List.

EHRETIA. (er-RET-te-ah)

- Boraginaceae. Tropical trees and shrubs suitable for the far South. They are interesting and ornamental.
- laevis*. EHRE-3. 35¢
- Shrub or tree to 40 ft; fls in 3" corymbs; India.

EKEBERGIA.

- capensis*. EKEB-3. 50¢
- Dark green lvs; evergreen; 35 ft; S. Af.

ELAEAGNUS. (el-ee-AG-nus)

- Elaeagnaceae. Ornamental small trees and shrubs. They are hardy and easily grown in any well drained soil; stratify the seed, if possible and sow in the spring or they can be sown in late fall; decid. species best increased from seed sown in February.

- angustifolia*. ELAE-1. 30¢
- Russian Olive. (III). d.b., 50¢ lb; c.s. lb. \$1.60.
- commutata*. ELAE-3. 35¢
- Silver Berry. 12 ft. c.s. Oz. 40¢; lb. \$2.50.
- pungens*. ELAE-13. 40¢
- Ev. gr sh to 10 ft; lvs silvery beneath; fls in racemes; Japan.Oz. 70¢; lb. \$4.00.
- Simonii*. ELAE-13S. 40¢
- Lvs variegated yellow and pinkish white. Oz. 70¢; lb. \$4.00.
- multiflora*. ELAE-10. 50¢
- Gumi. Decid. sh. to 6 ft; fragrant fls; April-May, followed by edible scarlet frs; Japan. Oz. 90¢.
- umbellata*. ELAE-15. 40¢
- Pretty sh or tr to 18 ft; fls fragrant; silvery lvs; Japan. Oz. 60¢; lb. \$4.00.

ELAEIS.

- guineensis*. ELAS-1. 50¢
- African Oil Palm. Grown in far S for ornament; valuable for its oil-bearing fr. 100 seeds \$5.00; 1,000, \$30.00.

ELAEOCARPUS. (el-ee-oh-KAHR-pus)

Elaeocarpaceae. Trees native of warm regions; hardy in (X) zone

—**ganitrus.** **ELAR-8. 40¢**
This tall tree furnishes the sacred beads of the Hindus; 100 seeds \$3.00.

—**reticulatus.** **ELAR-10. 35¢**

ELAEODENDRON. (el-ee-oh-DEN-dron)

Celastraceae. Leathery-leaf tropical or subtropical sh and trs; GH in N; hardy in far S.

—**capense.** **ELAO-1. 50¢**
Evergreen shrub; grown in GH; (X). 100 seeds 95¢.

ELETTARIT.

Zingiberaceae. Cardamon. Perennial plants of India, of medicinal value and in spices.

—**Cardamomum.** **ELET-7. 50¢**
Moist shady places in warm regions; 10 ft. **Oz. 1.50.**

ELSHOLTZIA. (el-SHOLT-see-uh)

Labiatae. Plants and shrubs having dense spikes of small blue or lilac fls; sunny spots to get flowers; sow in the spring.

—**Stauntonii.** **ELSH-7. 25¢**
Shrub to 5 ft; fls lilac-purple, in dense 1-sided spikes, 8" long; SEPT-OCT; (IV); N. China.

EMBOTHRIUM.

Proteaceae. Sh and small trs of S. Hemisphere; showy; in dense racemes, followed by fruits.

—**coccineum.** **EMBO-1. 50¢**
Shrub; scarlet fls; (IX). 100 seeds \$2.00.

EMILIA. (em-MILL-ee-uh)

Tassel-Flower. Compositae. Annuals and perennials of low neat habit; native of the tropics. The slender stems are tipped by small rayless many colored heads surrounded by white bristles; grow as a TA in the N; sun; fls July till frost; they were formerly listed under *Cacalia*; they are very easy to grow; sow out doors during April.

—**sagittata.** **EMIL-IX. 25¢**
Fls $\frac{1}{2}$ " ac; in loose corymbs; 2 ft; TA.

—**coccinea.** **EMIL-IC. 25¢**
Scarlet, tassel-like flowers. $\frac{1}{4}$ Oz. \$1.50.

—**aurea.** **EMIL-IY. 25¢**
Golden yellow variety.

—**lutea.** **EMIL-IG. 25¢**
Orange flowers. $\frac{1}{4}$ Oz. \$1.50.

—**Emilia or Cacalia Mixed.** **EMIL-X. 20¢**

EMPETRUM. (EM-pet-rum)

Empetraceae. More or less decumbent shrublets from N. Eurasia.

—**nigrum.** **EMPE-4. 40¢**
Crow-berry. Spreading Heath-like ev. gr; 10"; black fruit. **Oz. \$3.00.**

ENCELIA. (en-ESEL-ee-uh)

Compositae. Plants or sub-shs with showy heads of yellow ray-fls and yellow or red ray-fls; N. Amer to Chile.

—**calva.** **ENCE-3. 30¢**
Perennial to 2 ft; yellow Aster-like fls; hardy in dry soils; RG. **Oz. 70¢.**

ENGELMANNIA.

Cosmositae. One perennial; dry soils of the S. Y.; related to *Parthenium*.

—**pinnatifida.** **ENGL-1. 35¢**
Cut-Leaf-Daisy. 3 ft; fl-heads, 1" ac; of yellow ray and disk fls in corymbs; Texas.

ENKIANTHUS. (en-ke-AN-thus)

Hardy deciduous shrubs native of Asia. They are of attractive upright growth with long slender clusters of nodding flowers in the spring. They thrive in moist, light soils with peat or leaf mould; easily grown from seed; fairly hardy in the North; (Eriacaceae). Sow seed during Feb. on peaty soil, cover very lightly.

—**campanulatus.** **ENKI-1. 35¢**
Bell-shaped yellow or pale orange fls, veined with red, $\frac{1}{2}$ " long; 30 ft; Japan.

—**cernuus.** **ENKI-3. 35¢**
White bell-shaped fls; 15 ft; Japan. **Oz. \$1.40.**

—**perulatus.** **ENKI-7. 75¢**
(*E. japonica*) Urn-shaped flowers; 6 ft; white. **Oz. \$1.50.**

ENTELEA. (n-tel-EE-ah)

One large-leaved shrub; to 20 ft; N. Z.
—**arborescens.** **ENTE-1. 50¢**
Attractive vigorous growing sh; Mulberry shaped lvs; beautiful white fls; very handsome; 10 ft; (XI); N. Z.

EPIGAEA.

—**repens.** **PLANTS**
Trailing *Arbutus*. Ev. gr. ground cover plants, 4-12 in. high; frag. pink or white fl-clusters in early Spring; well drained humus soils; shade. Each 75¢; 3-\$1.80; 25 plants for \$14.00.

ENTEROLOBIUM. (en-ter-oh-LOH-bi-um)

Leguminosae. Trop. Amer trs; fls in heads or clusters with showy stamens; ornamental; for South.

—**Timbouva.** **ENTR-3. 50¢**
Elephant's Ear. (X). 100 seeds \$1.50.

EPIDENDRON. (ep-id-DEN-dron)

Orchidaceae. Eypiphytic tropical American Orchids, grown same as *Cattleyas*.

—**radicans.** **EPID-44. \$1.00**
Crucifix Orchid. Terminal racemes of many vermilion colored fls 1" across.

—**O'Brienianum.** **EPID-44B. \$1.00**

EPILOBIUM. (ep-il-LOH-bee-um)

Hardy plants suitable for damp places or in the wild garden.

—**augustifolium.** **EPIL-4. 30¢**
Fire Weed. Purple fls 1" ac in terminal racemes; 3 ft; July-Aug; moist sunny spot; HP. **PLANTS: 60¢ each; 3 for \$1.50.**

—**latifolium.** **EPIL-20. 40¢**
(*Chamaenerion lat.*) 18"; purple fls 2" ac; HP; Alaska.

—**latifolium.** **EPIL-20. 40¢**

—**latifolium.** **EPIL-20. 40¢**

EPITHELANTHA. (ep-ith-el-LANTH-uh)

Cactaceae. Button Cactus. One small globular species from Texas.

—**micromeris v. Greggii.** **EPIT-1G. 40¢**
Fls light pink, $\frac{1}{4}$ " across.

EPOSTOA: see under *Cacti*.

ERAGROSTIS.

—**abyssinica.** **ERAG-1. 30¢**
—**capillaris.** **ERAG-5. 30¢**
—**tenelle.** **ERAG-30. 40¢**

ERANTHIS. (ee-RAN-this)

Ranunculaceae. Winter Aconite. Small tuberous rooted hardy perennials with bright Buttercup-like flowers and whorls of shiny leaves in early spring, flowering with the



STRIKING EREMURUS ELWESII

Snowdrops; very pretty and some should be in the RG or border.

- hyernalis*. **ERAN-1. 30¢**
- Golden yellow fls, 1½" ac; 6 inches high.
- clivica*. **ERAN-1C. 30¢**
- Has broader sepals.

EREMOPHITA: see **STENOCHILUS**.

EREMURUS

Desert Candle; Foxtail Lily. **Lilaceae**. Spectacular plants up to 8 feet high, clothed for half their height with close-set starry blooms that lasts for several weeks. Thrive in a rich fibrous well drained soil having some sand; sunny places; seedlings develop slowly; hardy in the N with winter protection; cover with leaves and a water-tight box placed over them to shed winter rains. Do not hoe soil; roots run far out from plant; sow seed in fall to germinate in February. The plants and seedlings die to the ground during June to reappear in late autumn; cover bed with paper for periods of 10 days during dormant season to kill weeds; (er-ee-MU-rus).

- Bungei**. **EREM-4. 40¢**
- Elwesii**. **EREM-6. 50¢**
- Pink fls with deeper band down center; 3 ft; HHP.
- Hybrids**. **EREM-SY. 25¢**
- Seed saved from yellow shades.
- Mixed**. **EREM-X. 25¢**
- Oz. \$4.50.

ERICA.

(ER-i-kah)

One of the Heathers; evergreen shrubs, very attractive for mild climates. Needle-

like leaves; lime-free soil. A few are hardy in Zone (IV) with some protection; they also make beautiful pot-plants for the GH; use fibrous peat and coarse sand in potting; the species are easily increased from seed sown during Feb. on peaty soil; seedlings damp off easily, so set them high in GH to get a good night air circulation.

- australis**. **ERIC-2. 30¢**
- Purplish red fls in terminal clusters; 4 ft; spring bl; HHP.
- capensis** Varieties Mixed. **ERIC-8X. 50¢**
- Springwood White**. **ERIC-10S. 50¢**
- 9 in. high; good white.
- White**. **ERIC-10A. 30¢**
- vivellii**. **ERIC-10V. 50¢**
- Lavender-red fls; 9 inches; HHSh.
- cinerea alba**. **ERIC-18. 40¢**
- Twisted H. White fls; June-Aug; 2 ft.
- atrosanguineum**. **ERIC-18G. 40¢**
- Blood-red fls; July-Aug; 2 ft; HHSh.
- Rose Queen**. **ERIC-18R. 40¢**
- Rose-pink fls; July-Aug; 9-12"; HHSh.
- mediterranean** Mixed. **ERIC-38X. 40¢**
- alba**. **ERIC-38A. 50¢**
- Dwarf form; 10 inches; white fls.
- Tall Form**. **ERIC-38M. 50¢**
- 2-3 ft; white flowers.
- persoluta**: see **E. subdivaricata**.
- subdivaricata**. **ERIC-53. 35¢**
- Rose or white fls; 2 ft; fls in racemes; S. Africa.
- terminalis**. **ERIC-56. 50¢**
- Pink fls; 3-5 ft; HSh.
- umbellata**. **ERIC-57. 30¢**
- Flesh to rose-pink in terminal umbels; 3 ft; HHSh.
- Veitchii**. **ERIC-60. 30¢**
- Hybrid between *E. aborea* and *lusitanica*; white flowers.
- Erica Mixture**. **ERIC-X. 25¢**

ERIGERON

Annuals and perennials resembling wild Asters; in white, rose or violet ray-flowers. They are easy to grow in the border or wild garden; a few are nice RG plants; (Compositae). (e-RIJ-er-on).

- aurantiacus.** ERIG-6. 30¢
Double orange Daisy. 1-2 inch heads; 10" high; HP. 1/8 oz. 1.50.
- compositus.** ERIG-17. 30¢
Rays white or purplish; 2 in. high; HP.
- concinus.** ERIG-18. 30¢
Small blue fls; May-August; easy; HP.
- Coulteri.** ERIG-20. 30¢
Large white flowered species; moist woods; 10"; HP. 1/8 oz. \$1.25.
- glabellus.** ERIG-27. 30¢
Violet or purple rays, 2" across; 15"; HP.
- glaucus.** ERIG-31. 50¢
Beach Aster; Sea-side Daisy. Lilac fls; June-Sept; 10"; HP.
- roseus.** ERIG-31R. 40¢
Rose colored flowers.
- lusitanica.** ERIG-36. 40¢
Pink or white fls; 12 ft. shrub.
- mucronatus:** see **Karvinskianus.**
- macranthus.** ERIG-40. 30¢
Lilac-purple; 30"; fine clumps in border; HP.
- multiradiatus** ERIG-44. 30¢
- roseus.** ERIG-44R. 50¢
Rose fls 3" ac; 1 ft; HP. 1/4 Oz. \$1.60.
- salsuginosus.** ERIG-55. 30¢
Large blue fls, 2" ac; 1 1/2 ft; very hardy.
- speciosus.** ERIG-57. 30¢
Dark violet; 2 ft; HP. 1/4 Oz. \$1.50.
- semiplenus.** ERIG-57D. 40¢
Semi-double lavender fls.
- subdivaricata.** ERIG-53. 40¢
- uniflorus.** ERIG-65. 50¢
Lavender Daisies; 4"; Arctic regions.
- Erigeron Dried.** ERIG-X. 25¢

ERINUS. (er-RYE-nus)

Hardy tufted perennials for the RG or for edging. They are 3-4 inches high and do best in partial shade and with good drainage.

- alpinus.** ERIN-1. 30¢
Purple fls, 1/2" ac; HP.
- albus.** ERIN-1A. 30¢
- Dr. Hahnle.** ERIN-1H. 30¢
Carmine-red and comes true from seed; 3"; HP.

ERIOBOTRYA. (ee-ree-oh-BOT-ree-ah)

Loquat. Rosaceae. Asian evergreen trees and shrubs; ornamental; (X).

- japonica.** ERIB-1. 50¢
Ornamental pot plant in North; out doors in (IX) zone; fresh seed in May.

ERIODENDRON: see Ceiba.

ERIOGONUM. (ee-ree-GOH-um)

Polygonaceae. Natives of western U.S., requiring a well drained peaty soil and a sunny position; fine for the rockery.

- flavum Piperi.** EGON-9. 30¢
Yellow fls; 8"; April-May; HP.
- nudum.** EGON-20. 30¢
White or yellow flower heads; poor soil; 1 ft; HP.
- ovalifolium.** EGON-23. 30¢
Bright yellow flower heads; dry soil; RG; sun; 3-6 inches; HP.
- pyrolaeifolium.** EGON-27. 30¢
Tufted; white to red flower heads; dry soil; RG; 4 inches high; HP.
- racemosum.** EGON-30. 50¢

- White or pinkish fls; 2 1/2 ft; HP; Colo.
- suba. pinum.** EGON-32. 30¢
Sulphur Plant. Yellowish white heads; May-June; 1 ft; HP.
- Eriogonum Mixed.** EGON-X. 25¢

ERIOPHYLLUM. (ear-ee-oh-FILL-um)

Compositae. Annuals and perennials of Western U.S. Flowers yellowish ray and disks; grown in dry places.

- intergrifolium.** ERIO-4. 30¢
Small Oregon Sunshine. Showy; May-Aug; 1 ft; HP.
- lanatum.** ERIO-6. 30¢
Oregon Sunshine. Golden daisies; dry places; 12"-18"; HP.
- lanceolatum.** ERIO-8. 30¢
Grows on hot rocks in crevices; 2-4 in; a real gem; good though subject.
- Eriophyllum Blend.** ERIO-X. 25¢

ERODIUM. (ee-ROyH-dee-um)

Heron's-bill. Geraniaceae. Annuals and perennials suitable for the RG or border; best in gritty loam with some lime; sunny location; they have a long blooming period.

- absinthioides.** EROD-1. 50¢
(olympticum). Violet fls, 3/4" ac; 8"; HP.
- gruinum.** EROD-15. 25¢
Violet-blue fls; 18"; HA or HB; Persia. Oz. 75¢.
- Manescavii.** EROD-22. 35¢
HP to 18"; rosy purple fls, 1 1/2" ac; Pyren.
- supracanum.** EROD-28. 50¢
Pink lined with rose; lvs basal; 4"; HP.

ERYNGIUM. (e-RIN-je-um)

Umbelliferae. Sea Holly; Eryngo. The pretty steel-blue or gray foliage of the larger species is most attractive in the border and the smaller kinds for the rockery. Some species make excellent cutflowers which can also be dried. Best in light rich soil and an open sunny place; most species are perennial; best to sow seed in the late fall to germinate in the spring.

- alpinum v. superbum.** ERYN-2S. 35¢
Light blue; June-July; germinates best in light; HP.
- Dark Blue.** ERYN-2B. 35¢
1/2 Oz. \$2.00.
- Bourgatii.** ERYN-6. 25¢
Steel-blue flower-heads; 1 1/2 ft; Medit. 1/4 Oz. \$2.00.
- giganteum.** ERYN-9. 30¢
Blue or pale green fls; 6 ft; HP. 1/2 Oz. 70¢
- Leavenworthii.** ERYN-11. 35¢
(Eringo) Purple-violet flower heads; July-Oct; dry sunny places; showy; 1-2 ft; HP. 1/2 Oz. 80¢.
- planum.** ERYN-16. 30¢
Very ornamental; sky-blue fls, 1/2". long heads; 3 ft; HP. 1/2 Oz. 70¢.
- Eryngium Mixed.** ERYN-X. 25¢

ERYSIMUM. (e-RIS-im-um)

Blister Cress. Cruciferae. These closely resemble Wallflowers; flowers white, yellow or lilac. They thrive in a sunny exposure; easy to grow. Most are excellent for the rockery and the biennials and perennials are hardy; sow where they are to grow.

- asperum.** ERY-1. 30¢
(Cheiranthus allionii) Dwarf compact, deep orange; 1 ft; HA.
- linifolium.** ERY-13. 30¢
(Cheiranthus linifolia) Low clumps; lilac fls; 1 ft; HP. 1/4 Oz. \$2.00.

- murale.** **ERYS-14. 30¢**
Golden yellow fls in racemes; HB but
grow as HA; 20 inches high.
- Perofskianum.** **ERYS-20. 30¢**
Blister Cress. Orange-yellow fls; 1-2 ft;
good on banks; HA. **Oz. 50¢.**
- pulchellum.** **ERYS-22. 50¢**
Deep orange fls; 6-24 inches; cespitose;
HP; Greece.
- pumilum.** **ERYS-23. 50¢**
Sulphur-yellow fls; 6"; HP; Europe.
- Wittmanii.** **ERYS-30. 30¢**
- Erysimium Mixed.** **ERYS-X. 25¢**

ERUCA.

Cruciferae. HHA and HB; grown as salad plant.

- sativa.** **ERUC-3. 25¢**
Rocket Salad, Roquette. HHA; 2½ ft;
rich and cut often to keep lvs tender; good
in Spring and Fall; soow direct in May.
Oz. 60¢; ½ Oz. \$1.40.

ERYTHEA.

(ehr-THÉE-ah)

Mexican Palms of low growth and planted in the far South; germinates in 70 days.

- armata.** **ERYH-1. 50¢**
(Brahea glauca) Mexican Blue Palm; (X).
10 seeds 50¢; 100, \$3.00; 1,000, \$12.00.
- Roezii.** **ERYH-1H. 50¢**
Mexican Blue Palm. to 40 ft; sometimes
listed under Brahea. 100 seeds \$1.50; 1,000,
\$8.00. (300 seeds to ounce)
- edulis.** **ERYH-3. 50¢**
(Brahea edulis) Guadelupe Palm; (X).
100 seeds to lb. 100 seeds \$4.00; 1,000, \$10.00.

ERYTHRINA.

(ehr-ith-RYE-nuh)

Coral Tree. Leguminosae. Trees and sh.
grown in the South; showy red and reddish
or yellowish flowers followed by long pods.
The herbaceous kinds ore grown under glass.

- arborescens.** **ERTH-1. 50¢**
Low flowering tr from Himalayas; fls in
short dense racemes; 30-50 seeds to oz.
Oz. \$1.50.
- Coralodendron.** **ERTH-4. 30¢**
Tree to 20 ft; pretty scarlet fls; Columbia.
- Cristi-gallii.** **ERTH-5. 50¢**
(Blakii) Coral-Tree. Crimson fls; showy;
(X). 65 seeds to oz. 100 sds \$2.00; 1,000, \$9.00.
- humana.** **ERTH-12. 30¢**
Collected in South Rhodesia.
- indica.** **ERTH-11. 30¢**
Tall tr with dense short racemes of scar-
let flowers; pretty; 50 seeds to ounce.
- alba.** **ERTH-11A. 35¢**
White flowered form; good shade tree.
- tomentosa.** **ERTH-22. 35¢**
Collected in Columbia.
- Erythrina Mixed.** **ERTH-X. 25¢**

ERYTHRONIUM.

(er-i-THROH-ne-um)

Trout-Lily, Adder's Tongue. Liliaceae.
Early spring blooming bulbous plants with
graceful nodding flowers and often richly
mottled leaves; they are nice in the rockery
or wild garden for a part shaded nook; rich
light soil, mulched in the winter with leaves.

- grandiflorum.** **ERYT-7. 25¢**
2 ft; bright yellow fls, 2" long; B. C.
- obtusatum.** **ERYT-7B. 40¢**
Bright yel. fls; but with purple anthers;
Wyo-Mont.
- Hendersonii.** **ERYT-9. 35¢**
Purple fls; mottled lvs; 1 ft; HP.
- oregonum.** **ERYT-20. 30¢**

Where number of seeds to lb. or oz. is
given, this is approximate figures.

ESCHSCHOLZIA

Papaveraceae. Sun lovers; sow at inter-
vals during March and April. direct, for
summer bloom; does not transplant; does
well in poor, dry soils; try on road banks;
(esh-SHOLT-zee-ah).

SINGLE FLOWERED VARIETIES: Very
showy in masses; all 50¢ per Oz. lb. \$3.00.

- Carmine King.** **ESCH-1C. 20¢**
This is the best carmine variety.
- Dainty King.** **ESCH-1D. 20¢**
Dainty, pretty soft pink; beautiful.
- Dazzler.** **ESCH-1L. 20¢**
Erect, compact; flashing scarlet; showy.
- Golden West.** **ESCH-1G. 20¢**
One of the best bright yellows; with an
orange center.
- Mandarin.** **ESCH-1M. 20¢**
Inside petals orange; outside scarlet.
- Mikado.** **ESCH-1K. 20¢**
A very showy orange-crimson.
- Orange Flame.** **ESCH-1F. 20¢**
Vivid orange-scarlet; showy in masses
- Orange King.** **ESCH-1R. 20¢**
A very showy orange.
- Rose Cardinal.** **ESCH-1N. 20¢**
A beautiful carmine-pink.
- Scarlet Beauty.** **ESCH-1S. 20¢**
Probably the best scarlet variety.
- Tango.** **ESCH-1T. 20¢**
Bronzy red and terra cotta.
- The Geisha.** **ESCH-1H. 20¢**
Brilliant gold and crimson; showy.
- Vesuvius.** **ESCH-1V. 20¢**
Showy Wallflower-red.
- White Emperor.** **ESCH-1W. 20¢**
The best pure white.
- Red Chief.** **ESCH-1RC. 20¢**
A real fiery red color.
- Blend of Above Varieties.** **ESCH-1X. 20¢**
Any above: Oz. 75¢.

CALIFORNICA FL. PL: Double flowering.

All \$1.00 per ounce.

- Creamy Crinkles.** **ESCH-3A. 20¢**
Apricot-buff; a real showy variety.
- Double Toreador.** **ESCH-3T. 30¢**
- El Toreador.** **ESCH-3T. 25¢**
Double orange-carmine overlaid golden
bronze.
- Enchantress.** **ESCH-3E. 25¢**
Double rosy pink.
- Flambeau.** **ESCH-3F. 20¢**
Rich orange-scarlet.
- Golden Glory.** **ESCH-3G. 20¢**
Deep golden orange-yellow. orange cent
er; pretty.
- Robert Gardiner.** **ESCH-3R. 20¢**
A showy orange.
- Scarlet Glow.** **ESCH-3S. 25¢**
Double rich scarlet-crimson.
- Sunbeam.** **ESCH-3B. 20¢**
- Sweetheart.** **ESCH-3S. 20¢**
Rose on a cream ground; pretty.
- White.** **ESCH-3W. 25¢**
- Mixed Doubles.** **ESCH-3X. 20¢**
Any above: ¼ Oz. 80¢.

ESCOBARIA.

(ess-koh-BAY-ree-uh)

Cactaceae. Small Mexican and Texas

Cactus.

- exiguus.** **ESCO-8. 50¢**

ESPOSTOA.

Cactaceae. One columnar Cactus; Ecuador.
Beautiful plants; require very little wat-
er at all times.

- lanata.** **ESPO-1. 35¢**
To 15 ft; pinkish fls, 2" long.

ESCONTRIA. (ess-KONT-ree-uh)

Cactaceae. One S. Mex. Cactus similar to *Cereus*.

—*Chiotilla*. **ESCT-1. 40¢**
Tree-like, to 20 ft; fls 1" long.

EUCALYPTUS

Gum Trees. Myrtaceae. Rapid growing evergreen trees of warm regions; some are profuse bloomers and make a valuable source for honey; they are very ornamental trees. Sow seeds early in the summer, cover with lath shade and transplant the following year. (eu-kah-LIP-tus).

—*Blakeleyi*. **EUCA-12. 40¢**
—*botryoides*. **EUCA-22. 50¢**

Bangalay. One of the best shade and ornamental Gums; wide spreading tr. to 50 ft; good coast tree.

—*caesia*. **EUCA-26. 50¢**
Lovely deep pink fls; nearly ever-blooming in spring; needs good drainage; 20 ft.

—*calophylla*. **EUCA-27. 50¢**
Port Gregory Gum. Pink, red or pure white fls; 30 ft. **Oz. \$2.00.**

—*camaldulensis*. **EUCA-30. 40¢**
(Syn. *rostrata*) River Red Gum. Strong grower for deep soils; 60 ft. **Oz. 90¢.**

—*capitellata*. **EUCA-36. 50¢**
A fast growing tr; 50 ft; white fls.

—*cinerea*. **EUCA-38. 50¢**
Fine ornamental shade tree in cooler sections; silvery foliage; 20 ft.

—*citriodora*. **EUCA-40. 50¢**
Lemon Scented Gum. 30 ft. **Oz. 90¢.**

—*cladocalyx*. **EUCA-43. 50¢**
Sugar Gum. Fine fast growing street tr; good for windbreaks; 50 ft. **Oz. 90¢.**

—*crucis*. **EUCA-56. 50¢**
Silver Mallee. Ideal border plant; dry places; white frosted stems, buds and lvs; 8 ft.

—*dives*. **EUCA-65. 50¢**
A valuable tree for distillation purposes; 40 ft; Aust.

—*erythronema*. **EUCA-74. 50¢**
One of the finest of the Gums; handsome small tree from W. Aust; large brilliant red flower buds and deep yellow fls; 20 ft.

—*Lairdi*. **EUCA-74L. 50¢**
—*eugenioides*. **EUCA-79. 75¢**

White String-bark. Fine coast and forestry tree; 50-75 ft; Aust.

—*ficifolia*. **EUCA-81. 50¢**
Scarlet Flowered Gum. 30 ft; fls 1½ in. long; in panicles; pink-scarlet. **Oz. \$2.00.**

—*globulus*. **EUCA-110. 50¢**
Tasmanian Blue Gum. Handsome foliage; suitable for GH growing and summer bedding; (IX); try starting seeds in flats during June; HHTr. **Oz. \$1.00.**

—*gomphocephala*. **EUCA-112. 40¢**
A tall valuable timber tree for coastal areas with light soils; 50-100 ft. **Oz. 90¢.**

—*gracilis*. **EUCA-115. 35¢**
Mellu. Grows from more than one stem young foliage, stems and buds, buds, bronze; fls in many-fl umbels; to 40 ft.

—*Gunni*. **EUCA-122. 40¢**
Effective street tree for sandstone areas; 40 ft.

—*hemiphloia*. **EUCA-124. 50¢**
—*albans*. **EUCA-124A. 50¢**

—*leucocylon*. **EUCA-154. 50¢**
White Iron-bark. Good, fast growing tr; white fls; does well in medium dry soils; 60 ft.

—*longifolia*. **EUCA-160. 50¢**
Woolly Tree. Large spreading tr for deep soils; 50 ft.

—*maculata*. **EUCA-172. 40¢**

Spotted Gum. Fast growing timber tr for mountain or coastal areas; 60 ft. **Oz. 90¢.**
—*macarthurii*. **EUCA-164. 50¢**

Spreading tree; source of a valuable perfume; 50-75 ft.

—*macrocarpa*. **EUCA-166. 50¢**
Coolgardie Rose. Largest flowered of all the Eucalyptus; brilliant red fls up to 5" across; decorative seed vessels; shelter from winds; good drainage; dry places; large glaucous lvs; 10 ft. ½ **Oz. \$1.60.**

—*macrorrhyncha*. **EUCA-168. 50¢**
String-bark. Good tree for dry places; 50 ft.

—*maculosa*. **EUCA-170. 50¢**
—*Maidenii*. **EUCA-175. 50¢**

Fine Aust. tree for mountain and slope areas; 50-100 ft.

—*marginata*. **EUCA-176. 50¢**
Jarrah. Valuable W. Aust. timber tree for coast; 50-100 ft.

—*megacornuta*. **EUCA-178. 50¢**
Newly discovered species; most unique of the Eucalyptuses; huge 3-4" yellowish green fls and remarkable warty operculums useful for decorations; quick grower; dry hot places; stands 18 degrees F.

—*melliodora*. **EUCA-182. 50¢**
Yellow Box. Attractive fast growing shade and honey tree; 60 ft. **Oz. 90¢.**

—*miniata*. **EUCA-186. 50¢**
Vermilion Gum. Very rare species; has crimson fls; Australia.

—*obliqua*. **EUCA-200. 50¢**
Messmate. Tall tree best in rich soils; coasts or slopes; 05-200 ft.

—*occidentalis*. **EUCA-203. 50¢**
W. Australian tree for clayey loams; 50-80 ft.

—*paniculata*. **EUCA-220. 50¢**
Large Australian tree for coast or slopes.

—*pilularis*. **EUCA-224. 50¢**
Black-butt. Tall straight tree for slopes and coastal areas.

—*piperita*. **EUCA-225. 50¢**
Stringy-bark. Small to medium tr; rather spreading habit; white fls.

—*podalyriaefolia*. **EUCA-227. 40¢**
—*polyanthemos*. **EUCA-229. 50¢**

Red Box. Spreading and very floriferous ornamental tr for inland areas; 40 ft.

—*Preissiana*. **EUCA-231. 50¢**
One of the W. Aust. flowering Gums; large golden yellow fls; coasts or slopes; 8-10 ft.

—*pyriformis*. **EUCA-236. 50¢**
Large red fls, 4" ac; golden anthers; very pretty sh; give shelter; 10 ft.

—*resinifera*. **EUCA-244. 50¢**
Large tree for light sandy soils on coasts. ½ **Oz. 75¢.**

—*rostrata*: see *E. camaldulensis*.

—*rudis*. **EUCA-250. 50¢**
Spreading Australian tree; 50 ft.

—*saligna*. **EUCA-252. 40¢**
Tall shaft-like tr for mt. or coast; 60 ft.

—*sideroxylon*. **EUCA-269. 50¢**
Iron-bark. White fls; 50 ft. gray leaves.

—*sideroxylon v. rosea*. **EUCA-269R. 35¢**
Red Ironbark. Medium size tr; rose fls in umbels.

—*spathulata*. **EUCA-277. 50¢**
—*Stowardii*. **EUCA-284. 50¢**

Large yellow fls; dwarf; sandy soil; 8 ft.

—*Stuartiana*. **EUCA-288. 50¢**
Apple Box. Spreading tr; 50 ft.

—*te-eticornis*. **EUCA-290. 50¢**
A fine tall tree.

—*torquata*. **EUCA-281. 35¢**
Reddish orange fls; leathery lvs.

—*uncinata*. **EUCA-215. 50¢**
—*viminialis*. **EUCA-310. 50¢**

Ribbon Gum. Good shade tree for parks;

mountain; 80 ft.

EUCOMIS. (YEW-kom-iss)

Liliaceae. S. Af. bulbous plants with basal leaves in rosettes. Easy in warm climates or a GH subject in N; sow seed during spring in flats or seed bed; good germination.

—*clavata*. **EUCO-2. 35¢**
Pineapple Flower. 2 ft; fls green; lvs are ornamental; resembles green Pineapple.

—*punctata*. **EUCO-2P. 40¢**
Pineapple Flower. Greenish fls; lvs 2 ft. long, 3" wide, spotted brown beneath; S. Af; GH or (VIII).

—*undulata*. **EUCO-8. 30¢**
Greenish fls, 3/4" ac in dense racemes; very striking and attractive.

EUGENIA. (yew-JEEN-ee-ah)

Myrtaceae. Tropical evergreen shrubs and trees. They are favorite subjects in the far South for their ornamental flowers and foliage as well as edible fruits; easily grown.

—*edulis*. **EUGE-10. 50¢**

Orange or yel. fr; size of orange; Brazil.

—*Dombeyi*. **EUGE-9. 50¢**

Grumixameira-Tree. To 50 ft; edible fr; Brazil.

—*jambolana*: see *Syzygium Cumini*.

—*myrtifolia*: see *E. paniculata v. australis*.

—*paniculata australis*. **EUGE-26A. 40¢**

A more bushy small tree; white fls; fruits excellent for jelly; Australia.

—*Smithii*. **EUGE-20. 40¢**

Australian tr; small white fls in terminal panicles. 100 seeds \$1.00; July-Sept delivery.

EULALIA japonica: see *Miscanthus sinensis*. A hardy ornamental grass.

EUONYMUS. (yu-ON-ee-mus)

Spindle Tree. Celastraceae. Shrubs and small trees with attractive foliage and showy fruits in the fall; easily grown and not particular as to soil. Best to sow seed as soon as harvested in the fall to germinate in the spring; decid. sp. can be sown in Feb. and containers plunged out doors till next March when they can be brot into the GH.

—*alatus*. **EUON-1. 50¢**

Deciduous sh; 8 ft; purplish fruits; China.

Lb. \$2.00.

—*atropurpureus*. **EUON-3. 30¢**

Wahoo; Burning Bush. Celastraceae. Shs to 20 ft; scarlet fr; hardy; (IV).

—*intermedia*. **EUON-3T. 30¢**

With bright red fruits.

—*Bungeanus*. **EUON-5. 40¢**

Decid sh to 15 ft; fruits are very pretty; (IV); China.

—*europaeus*. **EUON-8. 50¢**

—*japonicus*. **EUON-15. 30¢**

Evergreen sh; 15 ft; (V). **Lb. \$2.25.**

—*obovatus*. **EUON-26. 40¢**

Running Strawberry Bush. Procumbent sh to 1 ft; HP.

—*oxyphyllus*. **EUON-27. 50¢**

Small sh or tr; Japan.

—*Sieboldiana*. **EUON-39. 35¢**

Rather scarce; Japan. **Oz. 80¢.**

—*yedoensis*. **EUON-40. 40¢**

Deciduous sh to 10 ft; Japan; pink frs.

—*Mixed*. **EUON-X. 25¢**

EUPTELEA. (yew-TELL-ee-uh)

Trachodendraceae. Decid. shs and trs native of Asia; moist places but well drained.

—*japonica*. **EUPL-3. 30¢**

Oz. \$2.00.

EUPATORIUM. (yew-pat-TOH-ee-um)

Thoroughwort; Boneset. Compositae. A large genus with ornamental greenhouse subjects; some are for the border or wild garden. They are all easily grown from seed.

—*cannabinum*. **EUPT-9. 25¢**

Hemp Agrimony. HA; pale purple heads; 6 feet.

—*Lasseauxii*. **EUPT-20. 25¢**

Heads white, changing to rose; 2 ft; TA.

—*maculatum*. **EUPT-26. 25¢**

Joe-Pye-Weed. Pink or purple fl-heads; 8 ft; TA.

—*purpureum*. **EUPT-32. 25¢**

Grows to 10 ft; lvs in whorls; purple fls.

—*rugosum*. **EUPT-34. 40¢**

White Snake-root. White heads; 4 ft; HP.

—*urticaefolium*. **Plants only**

American Ageratum. Decid; 2-3 ft; white fl-heads; woods, semi shade. **PLANTS: 75¢**

each; 3 for \$1.75.

—*Mixed Eupatoriums*. **EUPT-X. 20¢**

EUPHORBIA

Spurge. Euphorbiaceae. It is one of the most diverse of all plant genera. There are at least 1,000 species, many good succulents. They thrive in a porous but not too rich a soil. Many species are being reclassified; for other succulents. Euphorbias are lime haters; tap water should not be used in their beds, only rain water; a temperature of 95 F. is good in germinating seed. (u FORB-beh); use great care in damaging these plants as they 'bleed' very easily when damaged; in some sp. the milk is poisonous; most sp. do their growing during the winter months; to save seed cover with bag as they explode when ripe.

—*Burmanni*. **EUPH-15. 50¢**

—*epithymoides*. **EUPH-40. 25¢**

(E. polychroma) A showy plant with pretty bright yellow bracts; 2 ft; HP.

Oz. \$5.00.

—*Fraseri*: see *rugosum*.

—*heterophylla*. **EUPH-67. 25¢**

Fire-on-the-Mountain. Annual Poinsetta.

start indoors or sow out side during April;

3 ft; TA. 1/2 Oz. \$1.25.

—*himalayensis*. **EUPH-68. 40¢**

—*Lathyrus*. **EUPH-75. 30¢**

Caper Spurge; Mole-Plant; 3 ft; HA.

—*Livingstonia*. **EUPH-80. 35¢**

Collected in S. Rhodesia.

—*marginata*. **EUPH-82. 20¢**

Snow-on-the-Mountain. Leaves margined white; 2 ft; HA. **Oz. 80¢.**

—*mauritanica*. **EUPH-84. 50¢**

Decumbent; RG; stems end in golden flower heads; HP. 1/4 Oz. \$1.20.

—*platyphyllus*. **EUPH-113. 50¢**

—*polychroma*: see *E. epithymoides*.

—*pulcherrima*. **EUPH-122. 50¢**

Poinsettia. Shrub to 10 ft; bright red fls; (X); they will not flower if the do not get a full 12 hours of darkness daily; even very short periods of light at night will affect them. 100 seeds \$9.00.

—*rugosum*. **EUPH-128. 35¢**

White Snakeroot. White heads; 4 ft; HP.

—*sikkimensis*. **EUPH-132. 35¢**

—*splendens*. **EUPH-135. 25¢**

Crown-of-Thorns; Calveary Clover. To 4 ft; bracts bright red; GH; HA.

—*Tirucalli*. **EUPH-148. 50¢**

—*variegata*: see *E. marginata*.

—*Wallichii*. **EUPH-157. 40¢**

Lime-green and yellow fls-heads; hardy;

striking garden flower.

—*Wulfenii*.

Lime-green and yellow fls; very striking.

—*Euphorbia Mixed*.

EUPH-156. 35¢

EUPH-X. 25¢

EURYA.

(yew-ree-uh)

Theaceae. Ev shs and trs; grown in GH or South; culture like Camellia.

—*japonica*.

EURY-5. 30¢

(*E. latifolia*) Small greenish white fls.

Oz. 0¢.

—*ochracea*.

EURY-9. 30¢

(*Cleyera japonica*) Creamy white, fragrant fls; red berries; Japan.

EUSCAPHIS.

Staphyleaceae. One deciduous shrub native of Japan and China.

—*japonica*.

EUSC-1. 50¢

EUSTOMA.

(YEW-stom-uh)

Gentianaceae. N. Amer. glaucous plants; fls white or blue, bell-shaped, in panicles or solitary.

—*russellianum*.

EUST-1. 35¢

Blue Gentian. HB; 2 ft; mass of 3" bell-shaped dark to pale blue fls; June till frost; moist place; fine cut; treat as HA; showy but not often seen; best sown in June, treating as biennial; pot seedlings and winter in cold frame; needs 60 degrees to germinate. 1/4 Oz. \$1.00.

EUSTREPHUS.

(EU-stree-fus)

Liliaceae. Australian vine-like plants; easy; GH or far South.

—*latifolius*.

EUSP-4. 40¢

White or blue fls; fr orange color; Aust.

EUTORPE.

Palmeaceae. Feather Palms.

—*edulis*.

EUTE-10. 75¢

Brazil.

EUTOCA: see *Phacelia*.

EVODIA.

(ee-VOH-dee-uh)

Rutaceae. Rhus-like shs and trs native of the far E. and Australia; fls in cymes or panicles.

—*franklinifolia*.

EVOD-3. 50¢

EXACUM.

(EKS-ak-um)

Gentianaceae. Annuals, biennials and perennials, summer blooming; fls white, lilac or purplish blue, flat petalled in branching clusters at the top of leafy stems. Not hardy in the N but grown as a pot plant in the GH; sow seeds in August for indoor growing; sow seed in April and grow on in pots for summer bloom or during Aug. for winter; hardy in far S; sow Jan and in succession till April.

—*affine*.

EXAM-1B. 50¢

A new dark lavender; fine dwarf for pot-plant; June-Oct; 6-9"; fragrant flowers.

—*teres*.

EXAM-6. 30¢

Blue flowers; 4 ft; India.

EXOCARPUS.

—*cupressiformis*.

EXOP-4. 50¢

Very nice shaped; tree found growing with Eucalyptus; fruit is edible and also liked by birds; seed scarce.

EXOCHORDA.

(ex-soh-KORD-uh)

Pearl Bush. Rosaceae. Hardy deciduous Asian shrubs; very ornamental and hardy in

the North. They thrive in a sunny place and well drained soil.

Seed can be held in sand, indoors, till spring and then started in flats in ordinary seed compost

—*racemosa*.

EXOR-6. 35¢

(*grandiflora*) 10 ft; fls 2" ac; China.

FAGARA: see **ZANTHOXYLUM.**

FAGUS.

(FAY-gus)

Fagaceae. Beech. Very showy ornamental trees, as well as valuable timber; nuts edible; loamy limestone soils; sow seed in fall or stratify for spring planting; seed scarce.

—*japonica*.

FAGU-7. 50¢

Japanese Beech. Oz. \$1.00.

—*crenata* v. gr. fl.

FAGU-3G. 50¢

Oz. \$1.00.

—*sylvatica*.

FAGU-10. 75¢

European Beech. Oz. \$1.00.

FARSETIA.

(far-SET-ah)

Erect woolly annuals and perennials or sub-shrubs with white, pink or yellow fls in spikes or racemes; sometimes listed under *Fibigia*. (Cruciferae).

—*clypeolata*.

FARS-2. 50¢

FATSIA.

(FAT-see-ah)

Araliaceae. A single evergreen shrub native of Japan and grown in the GH; it is an extra nice foliage plant.

—*japonica*.

FATS-1. 50¢

(*Aralia Sieboldii*) Ev sh 20 ft; grown in the GH; (VIII); whitish fls in umbels; new seed ready in April; sow in GH on light sandy compost containing peat; 70 F bottom heat; keep moist; germ. after 3 wks; some sow on saw dust; transplant to flats and then to 2" pots; plunge in hot bed; they require liquid manure and good handling for best results; price is variable.

100 seeds \$1.60.

—*Moseri*.

FATS-1M. 50¢

Dark green foliage and dwarf habit. Fresh seed March-April; GH.

—*papyrifera*: see *Tetrapanax papyriferum*.

FAUCARIA.

(faw-KAY-ree-uh)

Rosette-forming plant with gapping jaw-like lvs; large yellow fls; very attractive; grows Apr-Oct; good house plants, winter temperature 55 Fah; water freely in winter and sparingly during Summer.

FEIJOA.

(fay-SHOH-ah)

Myrtaceae. Showy S. Amer. trs and shs, doing well in dry climates, and standing several degrees of frost; sow seeds in pans of silver sand and redwood sawdust; transplant to permanent place when seedlings are 4" high.

—*Sellowiana*.

FEIJ-4. 50¢

Very pretty fls; 18 ft; (X); fr. edible.

FELICIA.

(fe-LISH-ee-ah)

Compositae. Af. annuals and sub-shrubs; the latter make nice plants in the GH and the annuals nice garden plants. They have attractive daisy-like fls with blue or white rays and yellow disks; start indoors during March; good soil and warm sunny place.

—*adfinis*.

FELC-1. 35¢

Blue flowers; 6 inches.

—*amelloides*.

FELC-3. 25¢

Blue Daisy To 3 ft; sky-blue fls on long

spikes; S. Af. (*Agatheae coelestia*). **Oz.**
\$3.00.

—a urea.

FELC-2. 25¢

This comes from N. Z. as *Agatheae azur-*
ea.

—*Bergeriana*.

FELC-4. 30¢

Kingfisher Daisy. Brilliant blue, daisy-
like fls with a golden center; fine for RG
or edging; 6"; HHA. $\frac{1}{2}$ Oz. **70¢.**

FERN SPORES AND PLANTS

The following list of ferns will be more
fully described in the next issue. A few of
the species can be reclassified as the genera
are not entirely agreed upon as yet. Seed
are not easily agreed upon as yet. Seed
delivery, so do not expect them to be hand-
ed like Zinnias.

There are several good kinds offered for
the greenhouse and as a rule seed is avail-
able most of the year. When ordering
plants, add 25¢ extra for postage when your
order is less than \$1.00; the initial postage
charge is too high for single plant orders; of
course, plants are shipped in spring and fall
months.

FERN SPORE CULTURE: First, fern
spores are not difficult to germinate. Sow
thinly on the surface of moist humus-rich
soil, in pots or pans. Sterilizing the soil is
best but wet the soil with strained water
washed from rich humus soil. Keep soil
moist but only by immersion, never by
overhead watering. Gentle warmth and
darkness tends to start germination; cover
pans with glass; wipe condensation off
every morning.

Growth is at first indicated by green pat-
ches on surface (note by good reading
glasses). It is at first tiny, flat plants with
sort of heart-shaped leaves, which really is
the plant itself, and not a leaf. Unlike
seeds, which are the result of fertilization,
the fern spore has not been fertilized and
this now takes place on the underside of
the first growth. From this union an egg
is produced, which develops into the fern
proper.

When these young plants are large
enough to be handled, they must be prick-
ed off separately into small pots to be
grown on.

NOTE: The following Genera of Fern are
listed in their proper places in the Catalog,
and see in following pages:

CATHEA.	ONOCLEA.
CHEILANTHES.	ONYCHIUM.
CIBBOTIUM.	OSMUNDA.
CYCLOPHORUS.	PELLAEA.
CYRTOMIUM.	PHYLLITIS.
CYSTOPTERIS.	PITYROGRAMMA.
DAVALLIA.	POLYPODIUM.
DICKSONIA.	POLYSTICHUM.
DIPLAZIUM.	PTERIS.
DRYOPTERIS.	PTERIDIS.
LYCOPODIUM.	PTERIDIUM.
LYGODIUM.	SCOLOPENDRIUM.
MICROLEPIA.	SELAGINELLA.
MICROSORIUM.	WOODWARDIA.
NEPHROLEPSIS.	

NOTE: I can supply large clumps if desired
or if you wish to make any large planting,

In growing the various species offered,
consider their uses; some are strictly trop-
ical and then can only be grown under
glass in the North but the hardy species
can be transplanted out side as soon as
established in pots.

CAUTION: It is very difficult to get fern
spores of late years. You can figure on at
least half those listed being out of stock;
That is the best that can be done.

I can quote special prices. They are not
difficult to transplant to a woody soil.

100 NATIVE FERNS: (Our Selection) for
shade or part shade. Postpaid. **\$20.00**

These are easily transplanted and here
in Michigan, we have 100% stands with
fall planting.

FENNEL: see **FOENICULUM VULGARE.**

FEROCACTUS.

(fer-oh-KAK-tus)

Cactaceae. Grow same as *Echinocactus*.

—*latipinnus*.

FERO-31. 45¢

—*Herrerae*.

FERO-25. 50¢

—*quercobensis*.

FERO-20. 50¢

Globular; rose to purple, bell-shaped fls;
1 inch long; Mexico.

—*macrodiscus vaxacensis*.

FERO-35A. 50¢

—*ovata*.

FERO-38. 50¢

Globular; 10"; pink campanulata fls, 2"
long; Mexico.

FESTUCA.

(fes-TUC-ah)

Fescus. Gramineae. Perennial grasses,
mostly tufted, with spikelets in narrow pan-
icles; some are suited for pastures, others for
lawn and ornamental grasses.

—*ovina v. glauca*.

FEST-8G. 25¢

Blue glaucous foliage; 2 ft; HP.

FEVERFEW: see **Chrysanthemum Parthen-**
ium.

FIBIGIA: see under **FARSETIA.**

FICUS.

(FY-kus)

Fig. Moraceae. Some are grown in the
(X) and (XI) zones and some make good
house plants.

—*benghalensis*.

FIC-6. 50¢

Banyan Tree. Large tr for far S; spreads
by secondary roots.

—*benjamina*.

FIC-7. 40¢

Banyan Tree of India. Largest tree of
genus; (X). 100 seeds 90¢.

—*capensis*.

FIC-10. 50¢

S. Af. Wild Fig. Ornamental fruit on
the old wood; 0 ft.

—*elastica*.

FIC--20. 35¢

Indian Rubber Tree. Pretty ornamental
thick glossy lvs; has berries. 100 seeds
90¢; 1,000, \$2.75.

—*glomerata*.

FIC-35. 50¢

Cluster Fig. Tr; fr 1" in clusters; India.

—*Hookeri*.

FIC-38. 50¢

Glabrous tr; fr 1"; India.

—*Lacor*.

FIC-30. 50¢

(F. infectoria; F. lucescens) Tree; India.

—*macrophylla*.

FIC-33. 50¢

Moreton Bay Fig. Attractive conservat-
ory plant with glossy leaves. Oz. \$1.75.

—*religiosa*.

FIC-52. 50¢

Peepul, Bo-Tree. Sacred tree of India.
 $\frac{1}{2}$ Oz. 95¢.

—*Roxburghii*.

FIC-60. 50¢

Low spreading tr or bush; India.

Seed in colored packets available for
school children to sell on commission.

FILIPENDULA. (fil-i-PEN-deu-lah)

Rosaceae. Meadow-Sweet. Perennials of N. temp zone; similiar to Spirea.

- multijuga.** **FILI-8.** 35¢
Glabrous basal lvs; rose to white fls; Japan (VI). **Oz.** 90¢.

FIRMIANA. (fir-me-AN-ah)

Sterculiaceae. Warm region trees and grown in the South as shade trees.

- simplex.** **FIRM-1.** 35¢
Chinese Parasol Tree; Phoenix T. (F. platanifolia, Sterculia p.); a good street tree in far S; (IX). **Oz.** 50¢; **lb.** \$2.50.

FOENICULUM. (fee-NIK-yew-lum)

SWEET FENNEL. Umbelliferae. Grown for its leaves and aromatic seeds; sow in early spring.

The common trade names are given here:

- Sweet or Florence.** **FOEN-1F.** 25¢
HA; but treat as HHB; short stems swollen at base. **Oz.** 50¢; **lb.** \$2.50.

- Sicilian.** **FOEN-1S.** 25¢
(Carosella) The fresh stalks can be eaten like Celery; very popular in Italy.

- Giant of Naples.** **FOEN-1N.** 20¢
Oz. 40¢; **lb.** \$2.00.

- Bologna.** **FOEN-1B.** 25¢
Oz. 40¢; **lb.** \$2.00.

- vulgare.** **FOEN-1.** 25¢
This is the common Sweet Fennel; HP; tall shining stems; feathery lvs **Oz.** 50¢; **lb.** \$1.90.

FORGET-ME-NOT: see *Myosotis*.

FRAILEA.

Cactaceae. Small low growing S. Amer. Cactus; shade during summer; no water during winter.

- colombiana.** **FRAI-9.** 60¢
Yellow flowers.

- Grahliana.** **FRAI-8.** 50¢
Globular; pale yellow fls with red throat 1½" long; Paraguay.

FRAGARIA: see *Duchesaea*.

FRANKLINIA: see *Gordonia alatomaha*.

FRASERA. (fray-ZER-ah)

Columbo. Gentianaceae. N. Amer. plants with white, yellowish or bluish fls in panicle clusters.

- Parryii.** **FRAS-14.** 30¢
Greenish white fls; 3 ft; S. Calif.

FRAXINUS. (FRAX-in-us)

Ash. Oleaceae. Valuable street and shade trees; do best where soil is moist; best to stratify seed or sow in late fall, when they germinate the following two springs; best to remove wings; sow in pans or flats of loamy soil and place in warm GH as soon as possible after gathered.

- ameriana.** **FRAX-1.** 30¢
White A. Stratify seed above 40 Fah. sow early in spring; many seeds germinate the 2nd year; soaking seed in soft water 8-10 days will help germination. **Oz.** 50¢; **lb.** \$2.50.

- excelsior.** **FRAX-14.** 30¢
European Ash. **Oz.** 40¢; **lb.** \$1.00.

- australis.** **FRAX-14A.** 25¢

- pendula.** **FRAX-14P.** 30¢
Oz. 90¢; **lb.** \$1.50.

- longicuspis v. Sieboldiana.** **FRAX-18S.** 50¢

- mandshurica.** **FRAX-19.** 50¢

Tr to 100 ft; N. E. Asia. **Oz.** 90¢; **lb.** \$5.00.

- Ornus.** **FRAX-27.** 30¢

- Flowering Ash.** Tr to 60 ft. **Oz.** 50¢; **lb.** \$1.50.

- pennsylvanica lanceolata.** **FRAX-31L.** 30¢
Red Ash. **Lb.** 1.25.

- velutina.** **FRAX-54.** 30¢
Velvet Ash. Tr to 50 ft; not hardy N. **Oz.** 80¢; **lb.** \$2.00.

FREEZIA. (FREE-zee-ah)

Iridaceae. A very popular flower for the GH; flowers in 10 weeks after planting bulbs making choice cut-flowers in late winter or early spring. They can be grown out doors in the far South where they should be planted in the far South where they should be planted the second year.

Can be planted to Dec 1st in GH but better earlier; best in flats or bench; never let dry out; provide some support so stems are straight.

- Luzi.** **FREE-2.** 50¢
New type in beautiful new shades.

- Hybrids.** **FREE-2H.** 30¢
(Ragioniere) Best European strain. **Oz.** \$4.00.

SUPER GIANTS. **FREE-2S.** 75¢

Superb mixture for florist; wide open flower bells on long stems; vivid colors; a special strain. 50 seeds \$1.50.

- pura grandiflora.** **FREE-5P.** 35¢
A pure white; very early flowering.

- Marie Josee.** **FREE-2M.** 30¢
Nice red.

- refracta Buttercup.** **FREE-5B.** 30¢
Pure buttercup-yellow; 18". ½ **Oz.** \$3.00.

- Tubergeni Hybrids.** **FREE-6H.** 30¢

- Mixed.** **FREE-X.** 30¢

FREMONTIA. (free-MON-te-ah)

Sterculiaceae. Two evergreen shrubs with showy yellow fls without petals, followed by capsular fruits; dry soil and not hardy in N.

- californica.** **FREM-1.** 40¢
Flannel-bush. To 10 ft; fls 2" ac; VII;

Calif; place seeds in hot water 20-30 seconds before planting.

- mexicana.** **FREM-2.** 50¢
Flannel Bush. 10 ft; fls 2" ac.

FRITILLARIA

Liliaceae. Bulbous plants with drooping bell-shaped fls often checkered in greenish, purple or brown. They can be grown from bulbs which are offered in the summer or they are easy from seed. (frit-i-LAY-ri-ah)

- atropurpurea.** **FRIT-4.** 40¢
Purple fls spotted yellowish green; 18".

- camschatcensis.** **FRIT-7.** 50¢
Chocolate fls in racemes; 18"; HP; Sib.

- cirrhosa.** **FRIT-8.** 30¢
Yellowish fls checkered purple; 2 ft; HP.

- imperialis.** **FRIT-11.** 25¢
Purplish brick-red or yellow-red fls; 4 ft.

- meleagris.** **FRIT-16.** 30¢
Flowers checkered with purplish or maroon; HP.

- pudica.** **FRIT-22.** 30¢
Yellow Bells. Earliest in spring; 6"; HP.

- recurva.** **FRIT-26.** 25¢
Scarlet checkered with yellow; 2 ft; HP.

- Roylei.** **FRIT-28.** 30¢
Greenish yellow, netted dull purple; 2 ft.

- Mixed.** **FRIT-X.** 25¢

FUCHSIA. (FEW-smuh)

Onagraceae. Tender plants with very pretty flowers; they make excellent house plants or can be grown in a cool GH. In the far South they are grown out doors.

Germinating seed: Soak seed in soft water 3-4 days or in a dilute acid condition for 8 hours; sterilize soil; put in water tight pans and cover with 1" layer of sand; both must be damp; press seed into sand till barely covered; cover pan (dark); 70-75 degrees bottom heat; air container dailyp; germination 1-13 weeks; prick seedlings into 2" pots and keep surrounded with wet peat moss.

—arborescens. **FUCH-1.** 50¢

To 18 ft; fls pink to purplish, erect terminal panicals; Mexico.

—boliviana. **FUCH-3.** 50¢

To 30 ft; fls 3" long, sepals pale rose, petals rich rose; Bolivia.

—thymifolia. **FUCH-35.** 50¢

To 3 ft; purplish red fls, ½" long; Mex.

GAILLARDIA

Blanket Flower. Compositae. Annuals, biennials and perennials with showy solitary flowers with red or yellow rays. They are excellent for cut-flowers or make showy displays in the border. (gay-LAHR-di-ah)

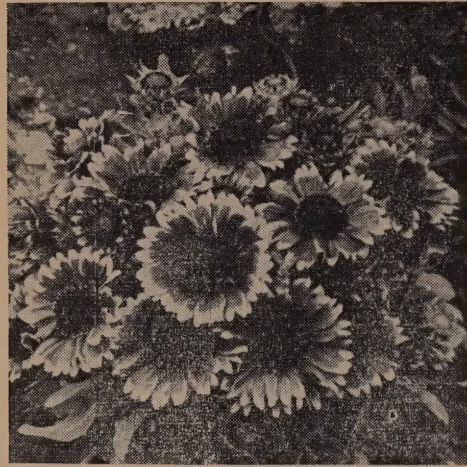
G. ARISTATA: Hardy perennials; easily grown anywhere. All varieties: ¼ Oz. 50¢.

—Bremen. **GAIL-1B.** 20¢

Coppery scarlet with yellow tips; pretty. ¼ Oz. 50¢.

—Burgundy. **GAIL-1N.** 20¢

A rich wine-red ; very showy. ¼ Oz. 50¢.



DWARF GOBLIN

—Goblin. **GAIL-1G.** 20¢

A dwarf compact variety; deep red with a golden border. ¼ Oz. 50¢.

—Monarch Strain. **GAIL-1M.** 20¢

Very large flowers in a wide color range.

—Portia Hybrids. **GAIL-1P.** 25¢

Scarlet fls interspersed with bronze-gold tips; semi-double.

—Royalty. **GAIL-1R.** 30¢

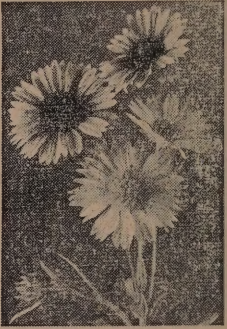
Red petals with a showy yellow border.

—Saturn. **GAIL-1S.** 30¢

Yellow petals with a red disk; H. C. at R.H.S. 1959.

—Sun. **GAIL-1SN.** 25¢

Orange-yellow; very nice. ¼ Oz. 70¢.
—Superbum. **GAIL-1S.** 20¢
Large flowered variety, mixed colors.
—Yellow Queen. **GAIL-1Y.** 20¢
Pure golden yellow; pretty. ¼ Oz. 50¢



GAILLARDIA — Monarch Strain

—Tangerine. **GAIL-1T.** 20¢

Beautiful orange; true.

—The Dazzler. **GAIL-1D.** 20¢

Intense golden yellow with maroon-red zone. ¼ Oz. 50¢.

—Tokay. **GAIL-1K.** 35¢

Wine-orange and tangerine; new.

—Blend of Above. **GAIL-1X.** 20¢

¼ Oz. 70¢. Any of above.

G. PULCHELLA: Also listed as *G. picta*, *G. Drummondii*. Hardy annuals growing to 18"; they are grown mainly for cutting. germinates 10 days at 60-65 Fah; for GH sow in January.

—Indian Chief. **GAIL-7C.** 20¢

Pretty deep coppery scarlet with dark brown center. ¼ Oz. 40¢.

—Lorenziana. **GAIL-7Z.** 20¢

Double disk fls; very showy. ¼ Oz. 40¢.

—Tetra. **GAIL-7T.** 20¢

A blood-red; showy.

—Single Mixed. **GAIL-7X.** 20¢

—New Giant Doubles. **GAIL-7DX.** 25¢

GALAX. **PLANTS**

—aphylla. Dandy ev. gr ground cover; 4-12"; pretty lvs; creamy white spikes; shade or part. **PLANTS:** Each 45¢; 3-95¢; 25 for \$7.50.

GALEGA. (gah-LEE-gah)

Leguminosea. Bushy perennials with blue white or purple pea-like fls in thick clusters or racemes; excellent cut-flowers; seed can be planted where they are to grow.

—officialis. **GALG-2.** 25¢

Goat's Rue. White, lilac and rose fls; 3 ft; HP; this is a large leaf strain.

GALPHIMIA glauca: see *Thryallis glauca*.

GALTONIA. (gol-TOH-nee-uh)

Liliaceae. S. Af. bulbous plants growing 2-3 ft. with flowers much like Hyacinths but in open racemes; they are hardy up in the (VII) zone.

—candicans. **GALT-1.** 25¢

Giant Summer Hyacinth. White; 3 ft; TBb; treat like Gladiolus in storage. **Oz. \$1.25.**

List a few 2nd choice items when ordering; it often helps to complete an order.

GAMOLEPSIS.

(gam-MOL-ep-is)

Small shrubs and plants native of S. Af. and having yellow solitary flower heads of ray and disk flowers. Grown for the fls and for edging; tender.

—**lagetes.****GAMO-11. 25¢**

Neat and compact little plant bearing quantities of bright golden yellow daisy-like fls; 8"; HA; bedding or edging; easy.

—**speciosa.****GAMO-10. 35¢**

Brilliant orange; 8".

GARDENIA.

(gar-DEEN-ee-ah)

Rubiaceae. Popular shrubs grown for their pretty fls, both out doors in the S or in the GH in the North.

—**jasminoides.****GARD-4. 50¢**

(G. florida) Cape-Jasmine. Ev. sh to 6 ft; fls white, 3" ac; China.

—**Thunbergii.****GARD-7. 40¢**

To 10 ft; fls white, fragrant, 4" ac; S. Af.

GAULTHERIA.

(gaw-THÉE-re-ah)

Ericaceae. Evergreen woody plants of the Heath Family having small white, blue, red or black fls followed by fruits. Many are very dwarf and suited for the RG. Sandy soil, plenty of moisture, best in light shade and an acid soil; not real hardy in N without winter protection; seeds sown during Feb. in peaty soil, lightly covered, gives best results.

—**antipoda.****GAUL-3. 30¢**

White or pink fragrant fls; sh to 5 ft; N. Z.

—**Hookeri.****GAUL-6. 40¢**

A rare species from the Himilayas.

—**oppositifolia.****GAUL-13. 50¢**

A really attractive shrub covered with striking Heath-like fls in early spring; 3 ft; (IX); N. Z.

—**perplexa.****GAUL-16. 30¢**

Prostrate shrub to 3 ft; N. Z.

—**procumbens.****GAUL-17. 40¢**

Winter-berry; Checkerberry; Teaberry. Creeping; white fls; May-Sept; scarlet fr; Canada to Ga; (III); pH 4-5. **PLANTS: 45¢ each; 3-\$1.10; 25 for \$7.50.**

—**trichophylla.****GAUL-21. 30¢**

Pink fls; prostrate, shrubby; RG; not easy but good.

—**rupestris.****GALT-20. 50¢**

Erect, rarely procumbent, sh with smaller lvs; white fls; pink or red br; 2-4 ft; (V); N. Z.

—**Mixed.****GAUL-X. 30¢****GAURA.**

(GAU-rah)

Oragraceae. N. Amer. perennials; rose or white fls in spikes or clusters. Grown in the border or wild garden.

Sow seeds with fuzzy pointed end just above soil surface; germs. 4-6 wks; 50% extra good; best started in Jan; slightly acid soil best.

—**Lindheimeri.****GAUR-2. 30¢**

A graceful bush with long sprays of white fls blooming over a long season; July-OCT; 3-4 ft; good cut; TP but grow as HHA; space 20". Oz. 80¢.

—**oclorata.****GAUR-3. 30¢**—**parviflora.****GAUR-4. 40¢**

Pink fls, 1/8 inch ac, in long spikes; S. D. to Mex; 5 ft; HP; germ. 16 days; 55-60 F.

GAZANIA.

(gah-ZAY-ne-ah)

(Meridiana) Compositae. White, orange and yellow fls opening in the sunshine; disks dark; border or for edging; seed must be

sown indoors in heat, Oct-May and not set out till May or June.

—**leucolaena.****GAZ-2. 40¢**

Trailing plant; yellow fls; gray lvs.

—**longiscarpa.****GAZ-1. 30¢**

A graceful bush with long sprays of Daisy-like golden yellow fls spotted brown around center, 2" ac; July-Oct; TP, grow as HHA; 6-9"; space 9".

—**pinnata.****GAZ-7. 35¢**

Orange fls; 6".

—**New Hybrids.****GAZ-3H. 50¢**

Many new colors. 1/4 Oz. \$1.50.

—**splendens, Mixed.****GAZ-8X. 30¢**

Rays orange with black and white spot at base; 18"; 100 seeds to oz. 1/2 oz. \$3.50.

GEJERA.—**parviflora.****GEIJ-3. 50¢**

A pretty little tr, 10-25 ft; white fls in sprays over a long period; far S; Australia.

GENIOSTOMA.

Loganiaceae. Shrubs native of Pacific Islands; fls small, in auxillary clusters or cymes.

—**ligustrifolium.****GENI-5. 40¢**

Greenish white fls; 12 ft; N. Z.

GENISTA.

(jen-NIST-ah)

Broom. Leguminoesae. Ornamental shs with yellow or white fls in racemes, followed by flattened pods. Thrives in dry locations

—**aethnensis.****GENS-1. 40¢**

Golden yellow; fragrant; July-Aug; Sic-canariensis; see *Cytisus*. Pretty pot plant.

—**fragens:** see *Cytisus fragens*.

—**hispanica****GENS-11. 50¢**

Spanish Broom. Golden yellow fls; in terminal heads; May-June; 2 ft; HP.

—**horrida.****GENS-12. 50¢**

Flowers in terminal heads; 1 1/2 ft; HP.

—**juncea:** see *Spartium junceum*.

—**monosperma.****GENS-17. 30¢**

White fls; 10 ft; (IX); 200 sd. to oz. Oz. 80¢

—**occidentalis.****GENS-19. 50¢**

—**scoparia:** see *Cytisus scoparius*.

—**sagittalis.****GENS-23. 50¢**

Yellow fls in terminal racemes; June-

July; 1 ft; HP.

—**tinctoria****GENS-38. 30¢**

Dyer's Greenwood. 3 ft. Oz. 75¢.

—**Genista Mixed.**

GENS-X. 25¢**GENTIANA**

Low growing annuals and perennials,, usually with blue or purple fls, occasionally white or yellow. They are excellent rockery plants. Best soil mixture recommended: 2 part loose bulk loam, 1 part course sand, 1 part bulk course peat to which add to each bushel of the above, 1 1/2 oz. super-phosphate and 3/4 oz. ground limestone. Leave lime out for Himalaya species; no manure or leaf mould. Seed containers should be kept shaded, never allow the sun to reach the seed; even when germinating; seed may take a year to germinate and thus sowing in coffee cans should be tried; C-24; (JEN-shan-ah).

—**acaulis.****GENT-1. 35¢**

Dark blue, spotted inside; 4"; HP; success is mainly a cool root; try planting North of a stone; light application of lime good; and mild climates; not hardy in the North. try oyster shells whei planting. Success is mainly a cool root; try planting N of stones; light applications of lime good. 1/2 oz. \$2.25.

—**Andrewsii.** Purplish blue; 2 ft; HP. **PLANTS: 40¢**
each; 3 for \$1.00.

—**augustifolia.** **GENT-8. 50¢**
Blue spotted with green; Alps; HP.

—**alba.** **GENT-7A. 50¢**
Rather rare and beautiful form.

—**asclepiadea.** **GENT-9. 50¢**
Dark blue fls, 1½" long; HP; Caucasus.

—**candidum.** **GENT-22. 50¢**

—**Clusii.** **GENT-24. 50¢**
Very much like *G. acaulis*.

—**cruciata.** **GENT-25. 50¢**
Dark blue fls; 10"; HP.

—**Farreri.** **GENT-31. 50¢**
Blue, white throat, yellowishwhite band;

3"; HP; sow in fall to March when they
germinate in 3 weeks.

—**Fetisowii.** **GENT-32. 50¢**

Deep blue; 1½" long; terminal clusters.

—**gracilipes.** **GENT-42. 50¢**

Rosette forming; fls purplish blue; 6";

China; HP.

—**Kochiana.** **GENT-47. 50¢**

Rosette forming; 6"; blue, white, rose; HP

—**linearis.** **GENT-50. 40¢**

(*Dasystephana linearis*) 2 ft; HP; blue fls

2" long in terminal clusters; (II).

—**lutea.** **GENT-53. 50¢**

Yellow fls; 1" long in dense umbel-like

cymes; 6"; HP. ½ Oz. \$2.00.

—**Olivieri.** **GENT-62. 35¢**

(*G. dahurica*) Dark blue fls in umbel-like

cymes; Asia; (IV); HP.

—**ornata.** **GENT-66. 40¢**

Deep blue fls; low rosette per; RG; Nepal

—**porphyrio.** **GENT-71. 35¢**

Bright blue fls 2" long; N. J.; sandy acid

meadows; 12"; HP.

—**purpurea.** **GENT-96. 35¢**

Purple fls; 2 ft; HP.

—**Saponaria.** **GENT-91. 35¢**

Blue fls; 30"; HP.

—**septemfida.** **GENT-98. 50¢**

Nice blue fls; stems 10"; July-Aug; HP.

1/8 Oz. \$4.00.

—**lagodechiana.** **GENT-98L. 50¢**

Dark blue.

—**sikkimensis.** **GENT-100. 50¢**

Mat-forming; 6"; blue, white throated;

China; HP.

—**tibetica.** **GENT-113. 50¢**

Yellowish white, tinted blue; 18"; 18 in;

Himalayas.

—**verna.** **GENT-118. 50¢**

Tufted dark blue; 3"; HP; sow seeds in

the fall and up to the end of Jan when

they naturally will germinate in late Feb

and March; any other time, the seed will

just hold over till the next Feb or March!

—**Mixed Gentians.** **GENT-X. 30¢**

GERANIUM. (gee-RAY-nee-um)

Crane's-bill. Geraniaceae. Annuals and

perennials for the border or rockery; set

the perennials out in the spring. CAUTION;

these are NOT the common greenhouse Ger-

aniums—they belong to the *Pelargoniums*.

—**collinum.** **GERN-11. 30¢**

Purplish violet; 18"; HP.

—**Farreri.** **GERN-18. 40¢**

Apple-blossom-pink; 9"; HP; Yunnan.

—**ibericum.** **GERN-23. 25¢**

Purple fls, 1½" long; 1½ ft; HP.

—**maculatum.** **GERN-29. 35¢**

Wild Geranium. Decid. 1-2 ft; pale pink-

purple fls; Ap-Aug; shade loving. **PLANTS:**

50¢ each; 3 for \$1.25.

—**nepalense.** **GERN-30. 50¢**

Rose-purple fls; decumbent to 18"; HP.

—**psilostemon.** **GERN-39. 50¢**

(*G. armenum*) 2 ft; HP; dark red fls

spotted with black at base; Armenia.

—**pratensis Silver Queen.** **GERN-38S. 50¢**

—**sanguineum.** **GERN-46. 25¢**

Reddish purple fls; 18"; HP

—**sibericum.** **GERN-48. 50¢**

—**Mixed Geraniums.** **GERN-X. 25¢**

GERBERIA. (jer-BEER-ee-ah)

Transvaal or Barberton Daisy. Compositae.

Herbaceous perennials with solitary orange

pink, or yellow heads in rays; they are not

hardy in far N; seed best sown indoors in

heat; in Spring use a sandy peat and loam

compost.

—**Double Flowered Mixed.** **GERB-2D. 75¢**

Giant flowered, best strain. 100 seeds

\$2.00; 500. \$6.00. (Fresh Seed)

—**Ginat Single Mixed.** **GERB-2S. 75¢**

100 seeds \$1.50; 500, \$4.00. (Fresh Seed)

GESNERIA. (jes-NEE-ri-ah)

—**Red Hybrids.** **GESN-1R. 50¢**

Beautiful German hybrids.

—**umbellata Texa.** **GESN-1T. 50¢**

Scarlet fls; showy pot plant.

GEUM

Avens. Rosaceae. Erect perennials easily

grown and excellent for cutting or for beds,

border or rockery; sow seeds in open ground

early in the spring. (JEE-um).

—**chiloense Fireball.** **GEUM-10F. 20¢**

Bright scarlet; 2 ft; HP.

—**Gold Ball.** **GEUM-10G. 20¢**

Rich golden yellow variety; 2 ft; HP.

—**Mrs Bradshaw.** **GEUM-10B. 20¢**

Rich double scarlet; 2 ft; HP. Oz. \$2.00.

—**Scarlet.** **GEUM-10R. 20¢**

Large double flowers.

—**Lady Strathedon.** **GEUM-10S. 20¢**

Double golden yellow variety; 2 ft; HP.

1/2 Oz. \$1.20.

—**Mixed Chiloense Var.** **GEUM-10X. 20¢**

—**Rinstrjom.** **GEUM-10M. 40¢**

Coppery orange fls; 18"; very hardy; good

—**coccineum.** **GEUM-11. 25¢**

Bright red fls, 1" ac; HP.

—**montanum.** **GEUM-24. 25¢**

Golden yel. fls, 1½" ac; 1 ft; good in

pastures or stony grounds or banks; HP.

—**reptans.** **GEUM-29. 50¢**

(*Siroesia r.*) Yellow fls, 1½" ac; HP; 6"

—**sylvaticum.** **GEUM-36. 50¢**

Yellow fls, 1" ac; 2 ft; HHP.

—**triflorum.** **GEUM-38. 35¢**

Purplish fls, ¾" ac; 1½ ft; HP.

—**urbanum.** **GEUM-40. 25¢**

Common Avens. Yellow fls ½" ac; 2 ft;

HP.

—**Mixed Geum.** **GEUM-X. 20¢**

GIBBAEUM.

Watering should always be from below

to prevent rot.

—**album.** **GIBB-2. 50¢**

—**dispar.** **GIBB-5. 50¢**

—**Heathii.** **GIBB-12. 50¢**

—**Nelii.** **GIBB-19. 50¢**

—**perviride.** **GIBB-27. 50¢**

—**petrense.** **GIBB-27. 50¢**

—**pubescens.** **GIBB-31. 50¢**

—**Shandii.** **GIBB-34. 50¢**

GILBERTIA.

Araliaceae. Shs and trs grown in GH or S.

—**tripida.** **GILB-3. 40¢**

Oz. 90¢.

Please do NOT write letters on orders!

GILIA

Polemoniaceae. Annuals, biennials and perennials having blue, yellow, pink or white funnelform flowers. They are mostly annual and the seed can be sown early in the open ground. (JIL-i-ah)

- achilleaeifolia.** GIL-2. 20¢
Blue, dense terminal clusters; 2 ft; HA.
- aggregata.** GIL-4. 30¢
Bears spikes of star-like fls varying from brilliant scarlet to pink; much like *G. rubra* July-Sept; 18"; space 18"; grow as HHA.
- capitata.** GIL-12. 20¢
Popular; erect branching habit; globe-shaped heads of soft lavender-blue, above a finely cut fol; June-Oct; 20"; HA. Oz. 50¢
- White.** GIL-12W. 20¢
- caruifolia.** GIL-13. 25¢
Hardy annual.
- French Hybrids.** GIL-23F. 25¢
Seed from France.
- incisia.** GIL-21. 25¢
Blue *Gilia*.
- laciniata.** GIL-22. 25¢
Rose, blue, pale lilac to white; 8"; HA.
- lutea.** GIL-26. 25¢
Formerly listed under *Leptosiphon*. An attractive dwarf annual; 6-9"; covered with star-like fls in large range of colors; excellent edging plants; is good with *Alyssum*; June-Sept; space 6"; HA.
- micrantha, Fairy Stars.** GIL-29F. 35¢
In pastel shades; new. ½ Oz. 75¢.
- rubra.** GIL-38. 20¢
Standing Cypress. A nice perennial, best treated as a biennial; striking plant with spikes of vivid scarlet tubular fls; July-Oct; 3 ft; space 20".
- tricolor.** GIL-42. 20¢
Bird's Eyes. Showy and easily grown; fls in loose clusters of lavender and white, with golden and purple centers; June-Sept; 1 ft; HA; space 1 ft. Oz. 50¢.
- Tall Mixed.** GIL-TX. 25¢
Oz. 50¢.
- Mixed.** GIL-X. 25¢

GILLENIA. (ji-LEE-ni-ah)
—**trifoliata.** Plants only.
Bowman's root. Decid; 2-3 ft; showy cut-foliage; pure white or rose-tinted fls in June; shade or part; good for mass effect.
PLANTS: 60¢ each; 3 for \$1.60; 25- \$9.00.

GINKGO. (GINK-goh)
Ginkgoaceae. One deciduous tree native of China.

—**biloba.** GINK-1. 35¢
Maiden-hair Tr. 15 seeds to oz. Oz. 60.

GINSENG: see *Panax quinquefolium*.

GLADIOLUS. (glad-ee-OH-lus)
Iridaceae. Cormous perennials native of Africa; most of them must be dug up in the fall and wintered over in a frost-proof place. germinate at 60 F in granulated peat moss.

- blandus.** GLAD-5. 35¢
White and red tinged fls; 2 ft.
- Melleri.** GLAD-34. 35¢
Bright salmon red species; 3-4 ft; South Rhodesia.
- permeadilis.** GLAD-41. 35¢
Pink or lilac fls; 2 ft; S. Rhodesia.
- psittacinus.** GLAD-44. 40¢
One of the parents of our large-flowered Glads; hardy in zone (VII) where it will form large clumps; in brilliant colored blooms in rich yellow and dark red.
- tristis.** GLAD-53. 30¢

Yellowish white fls with purple on keel; 2 ft; S. Af.

—**Mixed Gladiolus Species.** GLAD-X. 25¢
NOTE: I would like to hear from anyone growing gladiolus species; best if located in central South.

GLAUCIUM. (GLAW-see-um)

Horned or Sea Poppy. Papaverceae. Perennials, with orange colored juice and with solitary orange or yellow fls.; grow as annual in the N; sow out doors in March or Apr; does not transplant well; thrives in any soil; sunny places.

- flavum.** GLAU-4. 40¢
Attractive foliage and large golden yellow or orange fls; flourishes in poor, sandy soil; July-Sept; 2-3 ft; space 20"; sow direct in March or April; does not transplant well; HA.
- Mixed.** GLAU-X. 25¢
Scarlet and yellow; 2 ft; HP; grow as HA.

GLEDITSIA.

Leguminosae. Tropical American trees and real good trees and hardy in the North. The seed can be sown in the spring but will require 2 years for all seed to germinate.

- caspica.** GLED-3. 40¢
Tr to 40 ft; pods 8" long; W. Asia. Oz. 60¢; lb. \$2.50.
- japonica.** GLED-5. 35¢
Tree to 70 ft; Japan.
- sinensis.** GLED-9. 35¢
Tree to 40 ft; 50 seeds to oz; China.
- tricanthos.** GLED-10. 25¢
Sweet Locust; Scald seed; sow in spring. Oz. 50¢; lb. \$2.00.
- inermis.** GLED-10N. 30¢
Pods twisted; (V); sow in spring. Oz. 60¢. Oz. 60¢; lb. \$2.00.

GLERICIDIA.

(glir-eel CID-ee-ah)
Luguminosae. Tropical Amer. trees and shrubs grown in the far South for ornament.

- sepium.** GLER-2. 35¢
Madra. Tropical tree with pea-shaped pink fls; blooms in spring in (X). Oz. 75¢.

GLOBULARIA.

(glob-u-LAY-re-ah)
Globulariaceae. Little shrubby plants from the mountains of southern Eu. and Asia, blue or white fls in rounded heads. They are easily grown from seed, in a moist and partly shaded place; RG.

- bellidifolia.** GLOB-3. 40¢
Probably a variety of *G. cordifolia*; prostrate sub-sh; blue fl-heads ½" across.
- cordifolia.** GLOB-4. 35¢
Prostrate sub-sh; 4"; blue fls, heads ½" across.
- elongata.** GLOB-6. 40¢
- repens.** GLOB-8. 35¢
(*G. nana*) Prostrate; bluish fls in heads, ½" across.
- Rothschildiana.** GLOB-10. 70¢
¼ Oz. \$8.00. For bulbs see Oriental Bulb List.
- trichosantha.** GLOB-18. 35¢
Globe-Daisy. Blue fls in heads ½" ac; 8"; June-July; HP.
- vulgaris.** GLOB-20. 35¢
(*G. Willkommii*) Fluffy blue fl-balls; 1 ft; HP; Caucasus.

This Catalog goes to nearly every country in the world; its the most complete Catalog published anywhere—costs but 30¢ prepaid

GLORIOSA.

(gloh-ree-OH-suh)

Glory-Lily. Liliaceae. Tuberous rooted climbers with red or yellow Lily-like flowers. They can be grown out doors in the S and in the N make fine GH plants.

—Carsonii.

GLOR-1. 50¢

—superba.

GLOR-5. 50¢

Climbing Glory Lily. 6-7 ft; sow March; ½" deep; 65 F.

GLOTTIPHYLLUM.

Highly succulent and nearly stemless plants; large yellow fls often scented; hold down water and food during summer growing period; keep dry; stand pots on stone slabs to prevent roots getting moisture thru drain holes; plenty of sun light.

Best as window plants or can be grown out doors; growing period, April-October.

—Mixed.

GLOT-X. 50¢

GLOXINIA: see *Sinningia speciosa*.

GLYCYRRHIZA.

(gliss-ihr-RYE-zuh)

Leguminosae. Perennials and sub-shrubs.

—glabra.

GLYC-2. 50¢

Licorice. Pale blue fls; 3 ft; HP; (V); rich moist soil; licorice roots. Oz. \$1.50.

GNAPHALIUM.

Compositae. Hardy HA, HB and HP; sow seed during March and April.

—trinerve.

GNAP-10. 50¢

GODETIA

Onagraceae. Erect annuals with bright showy flowers in red, lilac, purple or white; easily grown, best in a light soil and sunny spot. Seeds can be started indoors or planted where they are to grow; also can be planted in Autumn.

G. GRANDIFLORA: Under this heading are the popular varieties. They probably are hybrids of *G. amoena* and *G. Bottae*; best sown during March (V-IV) or April, directly where they are to grow as they do not transplant well; farther South the seed can be planted in Sept; they are also excellent pot plants for the greenhouse; sow seed in Aug-Sept for January flowers; give plenty of room and well to stake plants; HA; space 18 inches apart.

—carmine.

GODT-4E. 20¢

Double carmine-red.

—Cherry Red.

GODT-4CR. 20¢

A real showy variety.

—Crimson Glow.

GODT-4G. 20¢

Dwarf; extra dark crimson strain; 1 ft.

—Duke to York.

GODT-4D. 20¢

Dwarf carmine-scarlet; 1 ft.

—Kelvedon Glory.

GODT-4K. 20¢

Dwarf deep glowing salmon-orange; 1 ft.

—Mauve Queen.

GODT-4M. 20¢

Beautiful new mauve color; dwarf; 1 ft.

—Fantasy.

GODT-4F. 20¢

Full double flowers.

—Orange Glory.

GODT-4N. 20¢

NEW; pure orange; double.

—Purity.

GODT-4P. 20¢

Glistening solid snow-white; 1 ft.

—Rosemunde.

GODT-4R. 20¢

Beautiful rose-pink; 1 ft.

—Sybil Sherwood.

GODT-4S. 20¢

Pretty salmon-pink; 1 ft.

—Thunderbolt.

GODT-4T. 20¢

Vivid deep crimson with frilled petals.

—White Swan.

GODT-4W. 20¢

Large flowering satiny white; 1 ft.

—Dwarf Single Mixed. GODT-4DSX. 25¢

—Mixed.

GODT-4DX. 20¢

All dwarf varieties; 1 ft.

Any of above: Oz. 80¢.

TALL UPRIGHT SINGLE VARIETIES:

—Nice for the border, bedding; 2-3 ft;

—Duke of York.

GODT-6D. 20¢

A rich scarlet.

—Fairy Queen.

GODT-6F. 20¢

White and crimson.

—Gloriosa.

GODT-6G. 20¢

Lord Roberts. Blood-red.

—Pelargonium.

GODT-6P. 20¢

Bluish pink, blotched sarmine; pretty.

—Scarlet Queen.

GODT-6S. 20¢

Brilliant scarlet.

—The Bride.

GODT-6B. 20¢

Crimson and white.

—Schamini, Mixed.

GODT-6SX. 25¢

—Tall Upright Mixed.

GODT-6X. 20¢

WHITNEYII: A very compact strain, both dwarf and double flowered; also known as *Azaleaeflora*.

—Maiden Blush.

GODT-7M. 20¢

Double rose-pink. ½ Oz.

80¢.

—Begonia Rose.

GODT-7B. 20¢

Compart brilliant rose.

—Lady Albemarle.

GODT-7L. 20¢

A compact crimson variety.

—Rembrandt.

GODT-7R. 25¢

Neyron-rose blotched with crimson.

—Whitneyii Blend.

GODT-7X. 20¢

Many varieties. Oz. 75¢.

GOLDEN SEAL: see *Hydrastis canadensis*.

GOMPHRENA.

(gom-FREE-nah)

Amaranthaceae. Native of American tropics; they are popular as "everlastings" bearing Clover-like heads; cut before fully open, hang up to dry in a cool, airy place.

G. GLOBOSA: Start seeds indoors for better germination.

—Rose.

GOMP-2Z. 20¢

—Orange-yellow.

GOMP-2Y. 20¢

—Purple.

GOMP-2P. 20¢

—Striped.

GOMP-2S. 20¢

—White.

GOMP-2W. 20¢

—Dwarf Buddy.

GOMP-2B. 25¢

New; extra dwarf; bright reddish purple. Oz. 90¢.

—Mixed.

GOMP-2X. 20¢

70¢ Oz. except Buddy.

GONIOPHLEBIUM: see *Polypodium*.

GORDONIA.

(gor-DOH-nee-ah)

Theaceae. Trees and shrubs from warm regions. The American species, *G. alata*, is not too well known, but a fine tree.

—alata-maha.

GODO-1. 40¢

Franklinia Tree. To 20 ft; beautiful white flowers 3" ac; it requires an acid soil and is hardy up into the (V) zone. 100 seeds \$2.50; 1,000, \$10.00.

GOURDS

Listed here are the Cucubits having hard shells and grown for ornament; they are very ornamental, easily grown and can be treated the same as Pumpkins; they want stand any frost; they dislike any root disturbance; excellent results are had by starting in 3" pots, shifting to 6" and setting out early in June; they need plenty of water; best started indoors in heat and set out in June.

SMALL FRUITED VARIETIES. Mainly

Cucubita pepo.

—Aladdin.

GORD-1AD. 35¢

Small Turban, green with yellow and red stripes.

—**Crown of Thorns.** GORD-1C. 30¢
Cream and green color.

SAIER'S HYBRIDS.

This strain is not a mixture of the varieties but results of crosses between the small fruited and the warted varieties which gives a mixture of pear and apple shaped fruits with warty types making them especially attractive; colors are in deep and light green, orange and yellows; plain and striped on each fruit.

—**Saier's Strain.** GORD-ISX. 35¢

—**White Egg.** GORD-1E. 20¢

About the size of a lemon.

—**Flat Striped.** GORD-1F. 20¢

Dark green with yellow stripes.

—**Miniature.** GORD-1M. 20¢

Fruits round, dark green striped yellow.

—**Orange.** GORD-1R. 20¢

Orange and the same size.

—**Pear-bicolor.** GORD-1PB. 20¢

Half green, half yellow; pear-shaped.

—**Pear.** GORD-1P. 20¢

White fruits; pear-shaped.

—**Pear-striped.** GORD-1L. 20¢

Dark green, striped with longitudinal white bands.

—**Pear White.** GORD-1PW. 30¢

A white pear-shaped fruit.

—**Spoon.** GORD-1S. 20¢

Club-shaped; golden yellow.

—**verrucosa.** GORD-1V. 20¢

Small green; very warty fruits.

—**Small Fruited Mixed.** GORD-1X. 20¢

Oz. 50¢; lb. \$2.80.

LARGE FRUITED VARIETIES: Mainly

Cucurbita leucantha.

—**Apple.** GORD-2A. 20¢

Apple-shaped; green.

—**Bottle-shaped.** GORD-2B. 20¢

Green.

—**Calabash Gourd.** GORD-2C. 25¢

Edible; long round shaped fruit with a thick white edible flesh which is peeled in thin tape and dried like noodles; try it. Oz. 80¢.

—**Corsican Flat.** GORD-2CF. 30¢

(*L. depressa*).

—**Dish Cloth.** GORD-2DC. 25¢

A TA trailing vine; grown mainly for the fibrous tissue of the fruit used as a towel; young fr. edible; fr; 3 ft long.

—**Dipper.** GORD-2D. 20¢

—**Marankas.** GORD-2M. 30¢

Club Shaped.

—**Powderhorn.** GORD-2PH. 30¢

(*L. pyrotheca*). Light green.

—**Hercules Club.** GORD-2H. 20¢

—**Nest Egg.** GORD-2N. 29¢

Fruits white; size of Duck egg.

—**Orange.** GORD-2G. 20¢

—**Snake or Serpent:** see *Trichosanthes*.....

—**Turk's Cap.** GORD-2T. 20¢

Very showy; acorn-shaped.

—**Wax Gourd.** GORD-2W. 25¢

Edible giant round fruits with thick flesh which tastes midway between cucumber and summer squash; very popular in southern sections; stew as a summer squash. Oz. 75¢.

—**Large Fruited Mixed.** GORD-2X. 20¢

Oz. 50¢; lb. \$2.50.

Where the number of seeds to the ounce is given, this is always approximate.

ORNAMENTAL GRASSES

The following list includes practically all those usually grown—in the U.S.A. at least. All may not be listed under their headings if seed is not available. I will appreciate hearing from any reader in foreign countries having other species, grown from seed.

For details see regular listings.

Agrostis nebulosa.

—*pulchella.*

Aira. (Hair Grass).

Arundo conspicua. *Donax.* v. *variegata.*

Croaaderia sellosana.

Briza maxima and *minor.*

Brizopyrum siculum.

Bromus.

Coix lacryma-jobi.

Crotaderia. (*Pampas Grass*).

Cyperus alternifolius; *paramatta.*

Delplachne.

Elymus. (*Lyne Grass*).

Eragostis tenella. (*elegans*).

Erianthus Ravennae.

Festuca glauca.

Ficinia poiretii. (*Isolepis gracilis*)

Glyceria. (*Divisions only*)

Gnerium argenteum.

Hordeum jubatum.

Isolepis gracilis.

Lagurus ovatus.

Lamarckia.

Melica.

Millium multiflorum.

Miscanthus sinensis; v. *zebrinus.*

Molinia. (*Lavender Grass*)

Panicum virgatum, bulbosum, capillare.

Paspalum.

Pennisetum longistylum; *Rueppelii.*

Phalaris. (*Ribbon Grass*)

Poa violacea.

Polypogon monspeliensis.

Scirpus natalensis.

Sitaris.

Stipa gigantea.

Stipa pennata.

Sorghum.

Uniola. (*Seaside Oat*)

Zea gigantea quadricolor.

Zizania. (*Canadian Wild Rice*)

—**Dwarf Grasses Mixed.** GRS-1X. 25¢

Only dwarf ornamental kinds. ½ oz. 60¢.

—**Tall Grasses Mixed.** GRS-2X. 25¢

Only ornamentals sorts. 1 oz. 80¢.

GREVILLEA. (*grev-VILL-ec-uh*)

Proteaceae. Tree and shrubs native of Australia and planted for street trees or ornament; some are grown in the GH as pot places; they are fairly hardy and probably can be grown up into the (VIII) zone.

—*aestevalis.* GREV-1. 50¢

—*Banksii.* GREV-2. 40¢

Shrub or tree to 20 ft; red fls in dense terminal racemes, 4" long; Queensland.

—*lanigara.* GREV-10. 35¢

Woolly Grevillea. Shrub to 5 ft; covered with mass of unusual red and green fls.

—*preissii.* GREV-42. 75¢

—*robusta.* GREV-45. 40¢

Silk Oak. Ornamental lacy house plant with fern-like green lvs; popular window plant; sow as soon as fresh seed is available or for GH growing sow late in winter or early spring; these will take 4-6" pots by 12 months; 60 F or higher best during day and 45-50 at night, hastens germination;

sandy compost pot soil; pot in Heath soil (acid); use smallest pot possible and do not disturb pot-balls; not too much water and none on foliage; 40-45 F good night temp. —Wilsonii. GREV-60. 50¢

GREWIA.

(GREW-ee-uh)

Tiliaceae. Trees and shrubs of warm regions of the Old World; small flowers followed by fruits; ornamental.

—caffra.

GREW-3. 50¢

—occidentalis.

GREW-5. 50¢

Ornamental shrub or small tree; native of S. Africa; purple fls; mild climates.

GRINDELIA.

(grin-DEL-ee-ah)

Gum Plant. Compositae. Western U.S. perennials bearing large yellow or disk flowers and doing well on poor soils.

—squarrosa.

GRIN-10. 25¢

Yellow fls, $\frac{3}{4}$ " ac; 2 ft; HB or HP.

GRISELINIA.

(griz-el-LIN-ee-um)

Cornaceae. N. Z. evergreen shrubs and trees; they have attractive leathery leaves and are grown out doors in the South.

—littoralis.

GRIS-10. 50¢

Tree with bright glossy foliage; ornamental; (IX); 12 ft; N. Z.

GUAVA: see **PSIDIUM.**

GUNNERA.

Haloragidaceae. Perennials with creeping rhizomes, grown for bold fol. effect; rich moist soils in sunny place; not real hardy in the North.

—chilensis.

GUNN-2. 50¢

Spikes 3 ft; 6 ft high; Chile-Columbia.

—manicata.

GUNN-12. 40¢

Similar to G. chilensis; S. Brazil.

—species.

GUNN-1. 50¢

Handsome ornamental foliage; fls large white.

GUTIERREZIA.

Compositae. Western Amer. natives related to Grindelia.

—Sarcotbrae.

GUTE-9. 35¢

Matchweed, Golden Dome. Countless fine stems and minute green lvs; dressed in sparkling gold; Sept; 12"; HP.

GYMNOCLADUS.

(jim-NOK-lad-us)

Kentucky Coffee Tree. Leguminosae. The seed coat is impermeable, soak seeds 2-4 hours in concentrated sulfuric acid; wash well before planting; small lots, file seeds or try soaking them 2-6 hours in water at 195 deg. Far; sow in spring. It is a large tr.

—dioicus.

GYMC-1. 25¢

GYMNOCALYCIUM.

Cactaceae. S. Amer. species; plants mostly globular; culture as Echinocactus.

—Damsii.

GYMN-9. 50¢

Seed may be crossed with other Gymnocalyciums.

—Mihanovichii v. stenogonum.

GYMN-28S. 50¢

Seed may be crossed with G. Damsii. Striped; plants 2" diam; fls yellowish white with dark red centers.

GYNERIUM Argenteum: see **Cortaderia Selloana.**

Small Orders can be sent in Postage Stamps

GYPSOPHILA

Baby's Breath. Caryophyllaceae. Hardy annuals and perennials of great value as cut-flowers; some are good RG plants. The flowers are small and numerous, in yellow, white or rose. one makes good "everlasting" flowers.

G. ELEGANS: Hardy annuals grown mainly for cut-flowers; they are valuable for this purpose. Succession planting can be made every week during spring months. In the South they should be planted in the fall; blooms in 6-8 weeks; 2 ft; C-2.

—Super White.

GYP-5M. 20¢

A special market growers strain. Oz. 50¢; lb. \$2.00; 5 lb. for \$6.00.

—London Market.

GYP-5L. 20¢

English growers strain. Same prices as above.

—Carmine.

GYP-5C. 20¢

—Crimson.

GYP-5S. 20¢

—Rose.

GYP-5Z. 20¢

—White.

GYP-5W. 20¢

—Blend of Above.

GYP-5X. 20¢

Oz. 50¢; lb. \$2.00. Above Colors.

GYPSOPHILA SPECIES

—acutifolia.

GYP-1. 40¢

Lilac-pink fls, larger than G. paniculata; Caucasus; HP. $\frac{1}{2}$ Oz. 60¢.

—cerastioides.

GYP-3. 30¢

Mouse-ear G. Downy; creeper, 3"; white cushions; RG; HP.

—Manginii.

GYP-12. 35¢

Mongolian G. Rosy white fls in small panicles; HP.

—muralis.

GYP-13. 35¢

Charming dwarf species for RG; small rose colored fls on slender stems; June-Sept; 6-9"; HA; space 9"; (mew-RAY-liss).

—Oldhamiana.

GYP-15. 30¢

Bright flesh-pink fls; mid-summer to frost 3 ft; HP. Oz. \$2.00.

—pacificia.

GYP-16. 30¢

Pale rose or purple fls; 3 ft; Siberia; HP Oz. \$2.25.

—paniculata.

GYP-18. 20¢

Baby's Breath. It grows 2-3 ft; small white fls that make up very well in bouquets or for dried fls; HP; DW. Oz. 70¢.

—Single White.

GYP-18W. 20¢

A select strain. Oz. 90¢; lb. \$9.00.

—Snowflake.

GYP-18DP. 30¢

(Praecox) An improved early flowering double. Oz. \$5.50.

—Double White.

GYP-18DW. 30¢

Oz. \$4.00.

—perfoliata.

GYP-19. 40¢

(Scorzonerifolia) Purplish fls; Medit; HHP

—repens Pink.

GYP-21P. 30¢

Trailer to 6"; blooms early; RG; HP; LW; C-23. Oz. \$1.65.

—Rosy Veil.

GYP-21V. 25¢

Full sun; deep rose variety; trailing.

—White.

GYP-21W. 30¢

Oz. \$1.65.

HAAGEOCEREUS.

Cactaceae. Nocturnal Cactus from South Amer; closely allied to Borzicactus.

—versicolor v. zenalis.

HAAG-20Z. 50¢

To 5 feet.

HABENARIA.

Orchidaceae. Fringed Orchis. Terrestrial Orchids grown in the bog garden or in moist places.

- dilatata* v. *leucostachys*. **HABE-9L. 75¢**
Sierra Rein Orchid. Very hardy, from Alaska south to Calif.
—*tetrapetala*. **HABE-26. 50¢**
Small green and white fls; a miniature Spider-Orchid; 1 ft; S. Rhodesia.

HABRANTHUS.

Amaryllidaceae. Bulbous plants from trop regions; grown out doers or as pot plants.

- advenum* v. *minata*. **HABR-2. 50¢**
This is also listed as *Rhodophalia bifida* v. *spathaceae*; this particular lot of seed is pink and not ox-blood and comes true from seed.
—*Andersoni*. **HABR-1. 40¢**
To 6 ft; fls yellow veined with red; S.Am.
—*brachyandrus*. **HABR-4. 40¢**
(*Hippestrum* b.) Fls 3" ac; orchid-pink shading to dark reddish purple.
—*lexanus*. **HABR-12. 40¢**
(*Zephyranthes*) 8"; yellow, coppery and striped with purple.

HAKEA.

(HAH-kee-uh)

Proteaceae. Rather hardy genus in Australia; one species is the loveliest foliage plants imaginable. They need good drainage; fls in cream, white, red or purple, drought resistant; much like *Grevillea*; sow seed in winter or spring, carry seedlings over in flats or pots the first year.

- acicularis*. **HAK-1. 30¢**
Needle Bush. Australia.
—*buccalenta*. **HAK-2. 50¢**
—*cucullata*. **HAK-4. 50¢**
—*cristata*. **HAK-3. 50¢**
—*laurina*. **HAK-13. 30¢**
Sea Urchin. Shrub or tree to 30 ft; crimson-lvs; excellent pot plant. 100 sd \$1.50
—*luoptera*. **HAM-82. 50¢**
son fls: W. Australia.
—*multilineata*. **HAK-18. 40¢**
Tall sh; fls in spike-like racemes, 3" long; S. and W. Australia.
—*Mixed Species*. **HK-X. 40¢**

HALESIA.

(hay-LEE-zee-uh)

Mohrodendron. Silver-Bells; Snowdrop Tree. Attractive deciduous trees native mostly of North America.

Halesia seed should be planted in flats at high temperature, 2-3 months then ahan at low temperature for 2 month; if planted untreated may take 2 years.

- calolina*. **HALE-1. 35¢**
(*tetraptera*).
—*diptera*. **HALE-3. 35¢**
To 30 ft; fls 1" long; fr 2-winged, 2" long; S. C-Texas.

HAMAMELIS.

(ham-am-MEEL-iss)

Hamamelidaceae. Witch Hazel. Deciduous small trees or shrubs; hardy in the North. Germinate best in damp rich soil, partial shaded beds; germinating mostly the 2nd year; stratify at 65-85 degrees F. for 2 months then 3 months at 40; this is the only treatment known to partially break its dormancy.

- hitchcockii*. **HAMA-1. 50¢**
Oz. 95¢.
—*flavo-purpurascens*. **HAMA-5. 50¢**
Oz. 95¢.
—*incarnata*. **HAMA-7. 50¢**
Oz. 95¢.
—*jaпонica*. **HAMA-9. 50¢**
To 30 ft; Japan. Oz. 90¢.
—*Moris*. **HAMA-12. 50¢**
Oz. 95¢.

- urcinatus*. **HAMA-9. 50¢**
8" tall; fls dark reddish brown; Tex.
—*virginiana*. **HAMA-18. 50¢**
Sh to 15 ft; F9-10; very showy in late autumn.

HAMATOCACTUS.

Cactaceae. Genus similar to *Echinocactus* with funnelform fls; small red berries.

- setospinus*. **HAMT-6. 50¢**
Globose; 6" tall; fls yellow, red throat.

HARDENBERGIA.

(har-den-BERJ-ee-uh)

Leguminosae. False Sarsparilla. Hardy Australian shs and climbers; put seed in boiling hot water; leave 24 hours; if not swollen repeat.

- monophylla*. **HARD-3. 30¢**
(*Kennedia*) Semi-climber; white fls.
—*Purple Form*. **HARD-3P. 40¢**
—*rubicunda*: see *Kennedia rubicunda*.
Vigorous per climber; HHP; masses of bright red pea-like fls.
—*villacaea*. **HARD-26. 50¢**
Australia's most lovely climber; fls purple to almost a red; seed requires heat treatment to germinate.

HARPEPHYLLUM.

(harp-ef-FILL-um)

Anacardiaceae. Native of South Africa.

- cafrum*. **HARP-2. 40¢**
Kafir Plum. Pretty tree to 30 ft; glossy lvs; fls white, followed by edible fruits; S. Fla to Calif; (X); nice pot plant, red and orange fls; 30 seed to oz. 4 oz. \$1.50.

HARRISIA.

(har-RISS-ee-uh)

Cactaceae. Arching and vine-like night-blooming Cacti; Fla-Argentina.

- fragans*. **HARR-16. 50¢**
—*Guellichii*. **HARR-20. 50¢**
—*Simpsonii*. **HARR-40. 50¢**
—*Mixed*. **HARR-X. 50¢**
Contains also *Guellichii*, *Martinii* and *Simpsonii*.

HAWORTHIA.

(ha-WOR-thee-ah)

Liliaceae. Succulents from S. Af; grows in dense rosettes.

- papillosa*. **HAWO-40. 75¢**
The prettiest of the Haworthias; spotted upright leaves; excellent pot plant.
—*Mixed*. **HAWO-X. 50¢**

HEATHER: see *Calluna*.

HEBE.

(HEE-bee)

Scrophulariaceae. Shrubs and small trees mainly from N.Z., and formerly classified with the Veronicas. They can be grown out doors in mild climates and some under glass in the North; some make excellent evergreen hedges; there are some 100 species.

- Bolionsii*. **HEBE-10. 30¢**
Pale lilac; 4" racemes; 5 ft; N. Z.; HHS.
—*Hulkeana*. **HEBE-40. 40¢**
Prostrate sh to 5 ft spread; found in moist places; 8-12" spikes of large China-blue fls; rare; exquisite; N. Z.
—*Lewisii*. **HEBE-44. 40¢**
White and blue fls, ½" ac, in racemes; 6 ft; mild climates; (X); N. Z.
—*rotundata*. **HEBE-56. 50¢**
—*saxicifolia*. **HEBE-63. 40¢**
White fls in 6" racemes; 12 ft; N. Z.
—*speciosa*. **HEBE-64. 35¢**
Dark reddish or violet-purple fls; ½" ac, in 4"-long racemes; 4-6 ft; (IX); N. Z.
—*Andersonii*. **HEBE-64A. 30¢**
—*Mixed*. **HEBE-X. 30¢**

HEDERA.

(HED-er-uh)

Ivy. Araliaceae. Evergreen climbing shrubs grown for ground cover in shady spots; some wall climbers; seed takes up to 2 years to germinate.

—**Helix.**

HEDR-4. 25¢

—English Ivy. c. s. Oz. 50¢; lb. \$2.00.

—**hibernica.**

HEDR-4L. 40¢

—Leaves larger, 6" across. Oz. 50¢.

HEDYCHYUM.

(hee-DIK-ee-um)

Ginger-Lily. Zingiberaceae. Robust tropical perennials mainly from India. Grown in the GH or in the far South. Flowers are showy and fragrant; rich soil and plenty of moisture.

—**coccineum augustifolium.** HEDY-4A. 30¢
Shorter lvs; salmon-pink fls; 6 ft; TP.—**coronarium.**

HEDY-5. 30¢

—**Hedychiums Mixed.**

HEDY-X. 25¢

HEDYSARUM.

Leguminosae. North temp. zone plants and shs o easy culture; well drained sunny places.

—**coronarium.**

HEDS-5. 30¢

—Bright red fls; summer; 3-5 ft; HP; open places, shrubby border.

HELENIUM.

(he-LEE-ne-um)

Compositae. Mainly perennials; few annual, flowering in summer and fall. Thrive in fairly rich soil and a sunny place; makes excellent plants for the border or wild garden; easily grown from seed started early in the spring or as late as July.

—**autumnale.**

HELE-2. 25¢

—Heads 2" ac; lemon-yellow, disks yellow; 6 ft; HP. ½ Oz. \$5.00.

—**Bigelovii.**

HELE-3. 25¢

—Rays yellow, disks brown; heads 2-3 in. ac; 6 ft; HP. ½ Oz. \$4.00.

—**Hoopesii.**

HELE-6. 25¢

—Flowers 3" ac; 3 ft; HP. Oz. 70¢.

—**teruifolium.**

HELE-19. 25¢

—Fl-heads 1" ac. clustered, yellow; 2 ft; lvs thread-like; sow out doors in Mar-Apr; HA.

—**Mixed Heleniums.**

HELE-X. 25¢

HELIANTHEMUM.

Sun-Rose. Cistaceae. Perennials thriving in dry limestone soils, in full sunshine. They are excellent border plants or rockery and some for ground cover; colors in yellow, rose, white and purple; July-Sept.; they have a long flowering period and should be cut back hard after flowering.

—**Ben Strain.**

HELM-11. 30¢

—All the colors; 6 inches.

—**nummularium.**

HELM-13. 25¢

—Various colors; 1 ft; (IV). Oz. \$1.25.

—**roseum.**

HELM-13R. 25¢

—Pink and rose shades. Oz. \$2.00.

—**Mixed.**

HELM-X. 30¢

HELIANTHUS

Sunflowers. Compositae. Showy annuals and perennials, with fls ranging from 1" to 12" across and in height from 3-20 ft. They are showy in background plantings; also ideal bird food for the winter months; plant as early in the spring as possible but to miss heavy freezes.

—**angustifolia.**

HELA-1. 25¢

—Swamp Sunfl. Attractive in background; 6 ft; purple disks; HP.

DEBILIS: (Cucumerifolius) Cucumber Leaf Sunflower. 4 ft; HA; plant branches much and with many flowers; nice for border.

CUCUMERIFOLIUS—**Orion.**

HELA-2N. 20¢

—Curled petals. Oz. 50¢.

—**Diadem.**

HELA-2DD. 20¢

—**Ruber Hybrids.**

HELA-2RH. 25¢

—**Purpureus Hybrids.**

HELA-2PH. 20¢

AUTUMN BEAUTY.

HELA-2AB. 30¢

A new European strain said too be the best cucumerifolius blend; fine combination of brown, brown-red and yellow-brown shades with golden and sulphur-yellow petals; early flowering. Oz. 60¢.

NAMED VARIETIES:—**Abendsonne.**

HELA-2AS. 20¢

—Beautiful new intermediate German var.

—**Aureole Rheinland.**

HELA-2AR. 25¢

—Wine-red zone on pure yellow ground.

—**Chrysanthemum Fl'ed.** HELA-2CF. 25¢

—8-10 ft; fls 6-8" ac; nice petals and double out to edge; try pinching out terminal.

Oz. 40¢.

—**Double Gold.**

HELA-2DG. 25¢

—Golden yellow; excellent for cutting.

—**Dwarf Yellow.**

HELA-2DY. 25¢

—Dwarf; double fls; white seeded.

—**Dwarf Double.**

HELA-2W. 25¢

—Double golden yellow; variegated lvs; 5'.

—**Excelsior Hybrids.**

HELA-2H. 25¢

—Chestnut-red and brown zoned fls; tipped with yellow; 3-4 ft. Oz. 60¢.

—**Goldenener Neger.**

HELA-2NG. 25¢

—Intermediate; golden petals; showy.

—**Golden Tufts.**

HELA-2GT. 25¢

—Orange-yellow.

—**Jupiter.**

HELA-2J. 25¢

—Rich yellow self; black seed; 6 ft.

—**Mars.**

HELA-2M. 25¢

—Yellow with a dark brown center; black seed; 5 ft.

—**Miniature Stella.**

HELA-2MS. 25¢

—Golden yellow.

—**Primrose.**

HELA-2PR. 25¢

—Sulphur yellow; hark disks. Oz. 50¢.

—**Miniature.**

HELA-2M. 25¢

—Small golden yellow fls on 5 ft stems.

—**Rheinland.**

HELA-2RL. 20¢

—Intermediate; wine-red on yellow ground 6 ft; Oz. 45¢.

—**Southern Cross.**

HELA-2SC. 25¢

—Yellow self with flowers 10-12 inches across; 4-5 ft.

—**Sun Gold.**

HELA-2SG. 20¢

—All double golden yellow. Oz. 60¢.

—**Henry Wilde.**

HELA-2HW. 25¢

—Single yellow with black center. Oz. 50¢

—**tuberosa.**

HELA-50. 40¢

—Jerusalem Artichoke, Girasole. HP; 12 ft; grown for its potato-like roots; fls yellow, disks 4" across.

—**Mixed Sunflowers.**

HELA-X. 20¢

HELICHRYSUM

Everlastings. Compositae. The Strawflower, *H. bracteatum*, is the commonly grown species; sow seed in rows in April or May or they can be started earlier indoors for early bloom; for drying cut before the flowers open much.

—**bracteatum, Mixed.**

HELI-4X. 20¢

—Heads 2½" ac; 3 ft; HA. Oz. \$1.25; lb. \$8.

—**Crimson.**

HELI-4C. 20¢

—**Fireball.**

HELI-4S. 20¢

—Tomato-red with orange.

- Golden Globe. **HELI-4G. 20¢**
- Snowball. **HELI-4W. 20¢**
- Yellow. **HELI-4Y. 20¢**
- Any of above: Oz. \$1.00; lb. \$9.00.
- Tom Thumb Mixed. **HELI-4TX. 20¢**
- A dwarf double strain for bedding or edging. Oz. \$1.00.
- Swiss Giants, Mixed **HELI-4SG. 25¢**
- Very large flowered in red and yellow shades; very nncce.

OTHER HELICHRYSUM SPECIES:

- angustifolium. **HELI-1. 25¢**
- Narrow leaved; fol. white; yellow fls; HHP.
- apiculatum. **HELI-3. 25¢**
- Australian Everlasting. 2 ft; fls in terminal corymbs, golden yellow; treat as HA in N; perennial.
- argyrophorum. **HELI-9. 35¢**
- bracteatum. **HELI-6. 35¢**
- Creeping and branching with pink tipped bracts, deeper towards tips; lovely for RG; S. Ar.
- bellidioides. **HELI-5. 30¢**
- Trailing woody; N. Z.; silvery white heads HHP.
- diosmaefolium. **HELI-6. 50¢**
- Sh to 20 ft; white heads in dense corymbs; Australia.
- Doerfleri. **HELI-7. 30¢**
- South Rhodesian Strawflower.
- fulgidum. **HELI-11. 35¢**
- Pretty; from South Rhodesia.
- monocephalum. **HELI-11M. 30¢**
- With yellow flowers.
- obcordatum. **HELI-14. 50¢**
- Gray Everlasting; small shrub to 5 ft; golden yellow fls; Australia.
- pachyrisum. **HELI-15. 40¢**
- Dwarf slender woolly; heads deep pink; South Rhodesia.
- semipapposum. **HELI-21. 40¢**
- Australian HP; 1-2 ft; golden yellow in many heads, 3/8" ac.
- species (?). **HELI-21. 30¢**
- Has little pink fls; pretty; S. Rhodesia.
- swannerionii. **HELI-22. 40¢**
- White flowered species from S. Rhodesia.

HELICONIA.

- Musaceae. Banana-like lvs; GH or far South; rich soil with plenty of water.
- amazonica. **HELC-2. 75¢**
- Bihai. **HELC-5. 75¢**
- Wild Plantain. 18 ft; lvs 1 ft. wide.
- coccinea. **HELC-9. 75¢**

HELIOPSIS.

(hee-le-OP-siss)

Compositae. Hardy perennials with flowers much like Helianthus; 2 inches across and growing to 5 ft. They are excellent in the border and make good cut-flowers; sow seed from early spring up to August, usually where they are to grow; C-23; lvs opposite.

- helianthoides. **HELO-1. 25¢**
- Many yellow heads 2 1/2" ac; 5 ft; HP.
- Pischeriana. **HELO-1P. 25¢**
- A deep rich yellow. Oz. 75¢.
- Golden Sun. **HELI-1G. 30¢**
- scabra major. **HELO-4. 25¢**
- Golden yellow; semi-double; 5 ft; HP;
- Mixed. **HELO-X. 20¢**

HELIOTROPIMUM. (he-le-oh-TROH-pe-um)

Heliotrope. Boraginaceae. Very fragrant flowers some kinds favorite GH plants and can be grown outdoors in the border; treat them as TA; GH; sow Fed-Mar; 60-65 F.

ARBORESCENS: This is the original species; all the improved garden forms are

hybrids and selections from it; HHA; space one foot apart; C-12.

- Giant Valencia. **HELR-2V. 25¢**
- A large flowered French variety.
- Souvenir. **HELR-2S. 25¢**
- Another large flowered French variety.
- Madam Bruant. **HELR-2B. 25¢**
- Velvet blue with white eyes. 1/2 Oz. 50¢.
- Marina. **HELR-2M. 25¢**
- A giant flowered variety in a deep violet color; giant umbels. 1/2 Oz. 80¢.
- Mammoth Flowered. **HELR-2MF. 30¢**
- Dark Varieties. **HELR-2DX. 25¢**
- Dark Blue. **HELR-2RB. 25¢**
- A dark blue dwarf variety.
- Regale Dwarfs. **HELR-2RD. 25¢**
- Dark blue flowers.
- Olympic. **HELR-2P. 25¢**
- King of the Blacks. **HELR-2K. 25¢**
- Dark violet fls. 1/2 Oz. 85¢.
- Giant Lemoinii. **HELR-2L. 25¢**
- Giant flowered, mixed colors. 1/2 Oz. 85¢.
- White Lady. **HELR-2WL. 30¢**
- Above Mixed. **HELR-2X. 25¢**

HELIPTERUM

Everlastings. Compositae. Annuals from S. Africa, treated as HHA in the North; easily grown started indoors or planted outside the end of May; the genus Rhodanthe is now listed in this genus as well, also, the species roseum of Acroclinium; C-7.

- chinense. **HELP-4. 30¢**
- Late flowering shrub; 5 ft; HHSH.
- Humboldtianum. **HELP-5. 25¢**
- A neat little plant with golden flower-heads; July-Aug; 1 ft; HA; space 10"; C-7.
- Manglesii. **HELP-8. 25¢**
- Charming dwarf annual formerly listed under Rhodanthe; bears clusters of dainty nodding bright rose flower-heads; July-



HELIPTERUM — roseum (Strawflower)

- Sept; HA; space 1 ft; C-7. Oz. 80¢.
- maculatum. **HELP-8M. 25¢**
- Swan-River-Daisy. Bracts spotted red and dark ring; 18"; HHA. Oz. 80¢.
- Rose Center. **HELP-8Z. 25¢**
- White. **HELP-8W. 25¢**
- roseum. **HELP-10X. 25¢**
- Usually listed under Acroclinium; a fine 'everlasting'; as well as showy in the border; single fls; C-1; HA; F7-9.
- Red Bonnie. **HELP-10RB. 25¢**
- Deep red variety, large double fls 1/4 Oz. 90¢.
- Double. **HELP-10DX. 25¢**
- Double White. **HELP-10DW. 25¢**
- Single White. **HELP-10W. 25¢**
- Double Rose. **HELP-10DZ. 25¢**
- Single Rose. **HELP-10Z. 25¢**

- Rose and Red Shades **HELH-10R. 30¢**
 All above ¼ Oz. 45¢.
 Large flowered. Oz. \$1.00.
 —**Sanfordii**: see **Humboldtianum**.
 —**Mixed Helipterum**. **HELP-X. 25¢**

- HELLEBORUS.** (hel-le-BOH-us)
 Christmas Rose, Helebore. Ranunculaceae. Perennials blooming very early in the spring, even late winter; thrive in rich moist soil and partial shade. Sometimes forced under glass; stratify seed during winter and sow in spring or late in fall; DC; C-23-24. shade seed bed during summer; keep moist.
 —**lividus**. (corsicus) **HELB-9. 50¢**
 Pale slate-blue fls in clusters; **corsicus** is supposed to be greenish (?); 18"; HP; best time to divide plants is after flowering.
 —**foetidus**. **HELB-6. 50¢**
 To 1 ft; green fls marked purple, 1" long.
 —**niger**. **HELB-10. 50¢**
 Christmas Rose. White fls; 1½ ft; hardy; HP. Oz. \$1.70; lb. \$18.00.
 —**maximus**. **HELB-10M. 50¢**
 Has larger flowers.
 —**New Giant Flowered**. **HELB-10H. 40¢**
 New hybrids in many fine shades; grown in Germany. 1/8 Oz. \$2.50.
 —**odoros v. cupreus**. **HELB-12C. 50¢**
 Copper-colored fls; 15"; HP.
 —**atrosanguineum**. **HELB-12A. 50¢**
 Red flowers; HP.
 —**olympicus**. **HELB-13. 50¢**
 White flowers; HP.
 —**viridis**. **HELB-18. 30¢**
 Yellowish green fls; 2 ft; HP; (VIHR-id-us). Oz 80¢; lb. \$6.00.
 —**Mixed**. **HELB-X. 40¢**

- HEPATICA.**
 Liverleaf. Ranunculaceae. Small hardy woods perennials; rich well drained soil; suitable for colonies in woodland.
 —**nobilis**. **HEPA-10. 50¢**
 Blue, rose and whitish fls, 1" ac; HP.
- HELWINGIA.**
 —**joponica**. **HELW-5. 50¢**
- HEMEROCALLIS.** (hem-er-oh-KAL-is)
 Day Lily. Liliaceae. Mainly tuberous root-
 ed perennials easily grown from seed.
 —**Middendorffii**. **HEME-21. 50¢**
 Broad Dwarf Day-lily. Pale orange fls;
 1 ft; Siberia. Oz. \$2.00.
 —**minor**. **HEME-22. 50¢**
 Dwarf yellow Daylily. Yellow fls in
 papies 3-4" long; Siberia.
 —**Peerless Blend**. **HEME-XP. 30¢**
 From hand pollinated varieties including
 reds and pinks.

- HEMITELIA.**
 —**Smithii**. **HEMI-12. 75¢**
 A beautiful fern species with pale grass-
 green fronds; N. Z.
- HERACLEUM.** (hehr-ak-KLEE-um)
 Cow-Parship. Urtelliferae. Course herbac-
 eous perennials used for bold effect in the
 border or wild garden; flowers pink or white,
 and very small and in large umbels; sow seed
 in the fall to germinate in the spring.
 —**lanatum**. **HERA-1. 40¢**
 Cow Parship, Indian Rhubarb, Wild Cel-
 ary. 8 ft; umbels 1 ft ac; collected Alaska.
 —**Mantegazzianum**. **HERA-2. 30¢**
 Deeply cut white fls in umbels to 4 ft. ac;
 9 ft; HP; try sowing seed in fall to germin-

- ate in the spring; C-23.
 —**vili-sum**. **HERA-6. 30¢**
 (giganteum) Deeply cut lvs; white fls; 12
 ft; HP; Caucasus. Oz. 90¢.
- HERBERTIA.** (her-BERT-ee-ah)
 Iridaceae. Bulbous plants with basal lvs;
 Texas to Chile.
 —**pulchella**. **HERB-2. 35¢**
 (pull-KELL-ah).
 —**scandens**. **HERB-5. 40¢**
 (H. volubilis) Guinea Flower; Australia.

- HEREROA.**
 Low shrubs or clumps; lvs dotted; fls
 medium large, yellow; best on window sill
 or out doors during summer.
 Do best as window plants or can be used
 out doors during summer; grows April-
 October.
 —**Rehnettiana**. **HERE-8. 50¢**

GARDEN HERBS

....The following is a list of the most pop-
 ular garden herbs, priced in pound or
 ounce purchases off large buyers; for small
 amounts see regular listing in Catalog.
 per lb; prepaid.

Anise.	2.00
Basil, Large Leaf	2.80
—Bush Type.	3.20
BORAGE.	2.00
Caraway.	1.40
CARDOON.	3.20
CORIANDER.	1.00
Corn Salid.	4.60
CHIVES.	7.00
CRESS, Peppergrass.	.80
—Broad Leaf.	.80
—Water Cress.	7.00
Dill.	.80
Fennel, Florence.	2.20
—Sweet.	2.20
Horehound.	5.00
Hyssop.	6.00
Lavender, spica.	7.50
—True (vera)	9.60
Marjoram Sweet.	7.00
Melessa officinalis. per OZ.	2.00
RUE.	8.00
SAGE.	4.00
SAVORY, Summer.	2.00
Wormwood.	6.50
Tarragon. rpe OZ.	2.00
Thyme.	9.60

COMMON HERB NAMES

Following are some of the more common
 Herbs found in this issue:

- Anise: see *Pimpinella anisum*.
 —Balm: see *Melessa officinalis*.
 —:see *Monarda didyma*.
 —Basil: see *Ocimum basilicum*.
 —Borage: see *Borago officinalis*.
 —Caraway: see *Carum carvi*.
 —Catnip: see *Nepeta cataria*.
 —Chervil: see *Anthriscus*.
 —Chickory: see *Cichorium*.
 —Chives: see *Allium schoenoprasum*.
 —Coiander: see *Coriandrum sativum*.
 —Cress: *Lepidium*, *Nasturtium*; *Barbarea*.
 —Cumin: see *Cuminum cyminum*.
 —Dill: see *Anethum graveolens*.
 —Fennel: see *Foeniculum vulgare*.
 —Horehound: see *Marrubium vulgare*.
 —Lavender: see *Lavandula*.
 —Mint: see *Mentha*.
 —Parsely: see *Petroselinum hortense*.

Pennyroyal: see *Mentha pulegium*.
 Rosemary: see *Rosmarinus officinale*.
 Rue: see *Ruta graveolens*.
 Saffron: see *Crocus sativus*.
 Sage: see *Salvia officinalis*.
 Savory: see *Satureja*.
 Spearmint: see *Mentha*.
 Sweet Marjoram: see *Majorana hortensis*.
 Sweet Woodruff: see *Asperula odorata*.
 Tansy: see *Tanacetum vulgare*.
 Tarragon: see *Artemisia dracunculus*.
 Thyme: see *Thymus*.
 Wormwood: see *Artemisia absinthium*.

MEDICINAL HERBS

Following is a list of the main medicinal herbs. See under their different heading in the Catalog for detailed information and availability, as well as prices by the ounce or pound; those especially interested should make inquiries early.

ACONITUM napellus. Monk's Hood.
 ALTHAEA officinalis.
 —rosea nigra.
 ARNICA montana.
 ARTEMISIA absinthium. Wormwood.
 ASPERULA odorata. Woodruff.
 CALEDULA officinalis.
 CHRYSANTHEMUM vulgare (tanacetum)
 DIGITALIS lanata. Woolly Foxglove.
 —purpurea.
 GALEGA officinalis. Goat's Rue.
 GENTIANA lutea.
 HUMULUS lupulus. Hop.
 MATRICARIA chamomille.
 MELILOTUS officinalis.
 —coeruleus.
 MENTHA piperita. Peppermint.
 —pulegium. Pennyroyal.
 PAEONIA officinalis.
 SALVIA officinalis.
 —pratensis.
 —sclarea.
 TEUCRIUM chamaedrys. Common Germ-
 ander.
 URTICA dioica.
 VALERIANA officinalis. All Heal.
 VERBASCUM thapsiforme. Aron's Rod.

HESPERALOE.

Liliaceae. Yucca-like plants from Texas; reddish or greenish fls.

HESPERANTHA. (hes-per-AN-thah)

Iridaceae. Tender S. Af. bulbous plants very similar to Ixias; flowers star-shaped, opening in the evening; fragrant; sunny spot; sandy loam with some peat; treat as pot plant in North.

—Bauri. HESPR-1. 50¢
 Bright rose-red fls; 2 ft; Transvaal.

HESPERIS. (HES-per-is)

Rocket. Cruciferae. Hardy biennials and perennials of erect branching habit, bearing white, rose or mauve-purple fls in pyramidal spikes; excellent cut-flowers; June-July; 1-3 ft; fragrant; sow seeds any time up to August for flowers the following season.

H. MATRONALIS: Sweet Rocket. The commonly grown garden species. Perennial but sometimes biennial; hardy in the North; sow seed a year before they are to bloom; C-23.

—White. HESPR-6W. 20¢
 —Red. HESPR-6R. 20¢

—nana candidissima. HESP-6C. 20¢
 A dwarf form; pure white fls.
 —Violet. HESP-6V. 20¢
 —Mixed. HESP-6X. 20¢
 Any of Above: Oz. 45¢; lb. \$2.00.
 —lutea. HESP-5. 50¢

HESPEROYUCCA. (hes-per-oh-YUK-ah)

Liliaceae. One species from S. Calif. much like the Yucca hardy in the (X) zone.

—Whipplei. HSPR-1. 35¢
 Creamy white fls, 2" ac; fragrant; in nodding panicles; TP.

HETEROMELES. (het-er-ooH-MEE-leez)

Rosaceae. One species native of Calif. a nice shrub and much planted, especially for its attractive berries.

—arbutifolia. HETM-1. 40¢
 (ar-bew-tif-FOH-lee-us) Christmas Berry. One evergreen shrub native of Calif and a popular source for Xmas berries.

HETEROMORPHA.

—trifoliata. HETO-1. 30¢

HETEROPAPPUS. (het-er-oh-PAP-pus)

Compositae. Hardy Asiatic perennials allied to Boltonia; nice border plants.

—Blaugriithi. HETP-1. 35¢

HEUCHERA. (HEU-her-ah)

Alum-Root. Saxifragaceae. Herbaceous perennials, usually of dwarf compact habit, flowering in June-Sept and valued for a low border or RG; sunny place; good loamy soil seeds require a cold spell and then germinate freely with warmth and light; Heuchera plants must be set deeply.

H. SANGUINEA: Commonly grown species found on cliffs and hills; LW; C-23.

—Spitfire. HEU-20S. 25¢
 Very pretty large scarlet flowered type.
 —splendens. HEU-20P. 25¢
 Dark crimson variety.
 —glabra. HEU-9.50¢
 20 inches; white fls in panicles; Alaska.
 —Hybrids and Mixed. HEU-X. 25¢
 1/4 Oz. \$3.00.

OTHER SPECIES:

—americana. HEU-1. 35¢
 American Alum-root. Ev gr; 1-2 ft; greenish or purplish fls in June; RG; shade or part. PLANTS: 50¢ each; 3-S.10.
 —cylindrica v. glabella. HEU-7G. 25¢
 Yellowish green fls; 2 1/2 ft; HP.
 —maxima hybrids. HEU-12M. 30¢

HIBISCUS

Rose Mallow. Malvaceae. Tender plants to trees with showy flowers in many colors. The annuals should be sown in pots or bands or direct to the garden; rich soil with moisture; C-8.

—coccineus. HIBS-5. 30¢
 Rose-red to crimson 6" ac; 10 ft; swamps in Ga.

—diversifolius. HIBS-11. 35¢
 Fls of delicate beauty, 8" ac, in a delicate lemon color with dark red centers; 8 ft; cut back in the fall; Asia.

—fulgens. HIBS-18. 40¢

A species from New Guinea.

—grandiflorus. HIBS-21. 30¢

To 6 ft; pale pink fls with reddish color in bottom; petals to 6" long. Oz. 80¢.

—roseus. HIBS-12Z. 40¢

- Hamabo.** **HIBS-22. 40¢**
Japanese sh; 10 ft; lge yellow fls, darker at base, 3" ac; (X).
- heterophyllus.** **HIBS-23. 40¢**
Tall Australian sh; white with crimson or purple centers, 4" long; not hardy in N.
- Manihot.** **HIBS-26. 30¢**
Yellow to white, dark brown centers, 9" ac; 9 ft;.
- Golden Bowl.** **HIBS-26G. 35¢**
Tall spires of large lemon-yellow, blotched maroon fls; showy.
- Sunset.** **HIBS-26S. 40¢**
Very large yellow fls with dark centers.
- millitaris.** **HIBS-27. 30¢**
White or pink fls; purple centers; 5" ac; 5 ft.
- Moscheutos.** **HIBS-28. 30¢**
(mos-KAY-eu-tus) Pink, rose or white; 8 ft; (H. palustris); HP.
- alba.** **HIBS-28W. 30¢**
- mutabilis.** **HIBS-29. 50¢**
(mew-TAB-il-iss) Cotton Rose; various colors; (IX).
- paramutabilis.** **HIBS-33. 30¢**
Similar to mutabilis; broader sepels.
- Rosa-sinensis.** **HIBS-36. 50¢**
Rose of China. Sh to 30 ft.
- Sabdariffa.** **HIBS-37...35¢**
Roselle or Jamaica Sorrel. Sub-tropical plant grown for its fleshy calyx; used in making jams, etc. Bushy; 4 ft; attractive maroon fls; set plants 5 ft apart; sow early in spring; grow like tomatoes.
- syriacus.** **HIBS-41. 30¢**
(sihr-RYE-ak-us) Rose of Sheron. (IV). Oz. 75¢; lb. \$4.00.
- ana p'eno.** **HIBS-41D. 35¢**
Double fls; (IV). Oz. 80¢; lb. \$4.25.
- filiceus.** **HIBS-44. 35¢**
(Pariti or Paritium) Mahoe. Sh or tr; yellow fls, 3" long.
- Trianum.** **HIBS-45. 30¢**
Flower-of-the-Hour. Yellow or white, with dark centers; fls in 4 mo; 2 ft; HP.
- Mixed Species and Varieties.** **HIBS-X. 25¢**

HIERACIUM. (hy-er-AY-shi-um)

Compositae. Perennials with red, orange or yellow flowers, some of which are called Hawk-weed. Easily grown; leaves in rosettes with the flowers in heads on erect spikes; cut fls off directly after flowering will check the reseeding.

- aurantiacum.** **HIER-3. 35¢**
Devil's Paint Brush. Orange fls; 15"; HP.
- faeroseus.** **HIER-6. 30¢**
- illium.** **HIER-14. 50¢**
- villium.** **HIER-19. 25¢**
Bright golden yellow; silvery lvs; 2 ft; HP. 1/2 Oz. 90¢.
- Walterianum.** **HIER-23. 50¢**
- Mixed.** **HIER-X. 25¢**

HIPPOPHAE. (hip-POFF-uh-ee)

Sea-Buckthorn. Elaeagnaceae. Shrubs and small trees covered with silvery scales; sow seed in the fall to germinate in the spring; for flowers keep till sex is determined.

- hamnoides.** **HIPO-1. 30¢**
Sea-Buckthorn. Bright orange-yellow fls; to 30 ft; very hardy; (ram-NOY-deez). c. s. Oz. 60¢; lb. \$4.00.

HOHERIA. (hoh-HEER-ee-uh)

Malvaceae. A genus of ornamental flowering trees confined to N.Z.; they can be grown out doors in the (X) zone.

- angustifolia.** **HOHE-2. 50¢**

Straggling and interlaced; eventually becoming slender and spreading; bears masses of white fls; 15 ft; (IX); N. Z.

- populnea.** **HOHE-7. 50¢**

Most beautiful tree with handsome foliage covered in autumn with sheets of white starry fls often concealing the lvs; 12 ft; try in pots; (IX); N. Z.

- Osbornei.** **HOHE-10. 50¢**

Uncommon free-blooming form; white fls with bluish purple stamens; under surface of lvs deeply tinted; recommended highly; try it in pots; (IX); 10 ft; N. Z.

- purpurea.** **HOHE-10P. 50¢**

Leaves with coppery veins and under surface; hybrid of Duncan and Davies; 18 ft; (X).

- N. Z. species.** **HOHE-X**

HOLLYHOCKS

(Althaea rosea). Malvaceae. They are perennials excepting a few annuals. Do best in a rich soil and warm place sheltered from strong winds; seed can be started from early spring to August; C-23.

NEW HUNGARIAN HOLLYHOCKS

- Delebab.** **HOLY-5M. 35¢**
A delicate salmon color.
- Hungaria.** **HOLY-5H. 35¢**
A clear red.
- Szeged.** **HOLY-5S. 35¢**
Primrose-yellow.
- Mixed.** **HOLY-5X. 35¢**

ANNUAL TYPES: When planted early in the spring they flower the same year; they are not as high as the hardy types; July.

- Indian Chief.** **HOLY-3C. 20¢**
Half double; deep amaranth-purple; 4 ft.
- Indian Spring.** **HOLY-3D. 20¢**
Rose and pink shades; 4 ft. Oz. 80¢.
- Indian Summer.** **HOLY-3S. 20¢**
Double pink fls.
- Mixed.** **HOLY-3X. 20¢**

PERENNIAL VARIETIES

- Allegheny Mixed.** **HOLY-2A. 20¢**
Semi-double 5" ac; petals fringed.
- Colorado Sunset.** **HOLY-2C. 25¢**
New strain; buff-apricot; pretty; double.
- Imperator.** **HOLY-2M. 25¢**
Fringed petals and crested centers.
- Triumph.** **HOLY-2T. 25¢**
Large fringed petals.

SINGLE FLOWERS:

- Deep Rose.** **HOLY-5Z. 25¢**
Deep rose with darker center.

CHATER'S DOUBLE: These grow 6 ft and are the best double strain. Colors are the finest. Oz. \$1.75.

- Carmine.** **HOLY-4C. 20¢**
- Carmine-rose.** **HOLY-4R. 20¢**
- Chamois.** **HOLY-4H. 30¢**
- Cream.** **HOLY-4M. 20¢**
- Crimson.** **HOLY-4CM. 20¢**
- Golden Yellow.** **HOLY-4YG. 25¢**
- Lavender.** **HOLY-4V. 20¢**
- Lilac.** **HOLY-4L. 20¢**
- Pink.** **HOLY-4K. 20¢**
- Deep Scarlet.** **HOLY-4S. 20¢**
- Sulphur-yellow.** **HOLY-4Y. 20¢**
- Violet.** **HOLY-4T. 20¢**
- Pure White.** **HOLY-4W. 20¢**
- Salmon.** **HOLY-4A. 20¢**
- Deep Rose.** **HOLY-4Z. 20¢**
- Chater's Mixed.** **HOLY-4X. 20¢**
- Any of above varieties: 1/2 Oz. 90¢.

—nigra.

HOLY 6. 50¢**HOLMSKIOLDIA.** (holm-skee-OLD-ee-uh)

Verbenaceae. Shrubs hardy in the South or in the greenhouse in the North.

—sanguinea.

HOLM-1. 30¢

Chines Hat Plant. Very pretty Himalayan creeper to 30 ft; fls in large panicles of fiery scarlet, 1" across; in great profusion; (X).

HOMALOCEPHALA.

Cactaceae. Formerly with Echinocactus.

—texensis.

HOMA-3. 50¢

6" high; depressed; fls bell-shaped, 2" long, scarlet and orange below; Texas.

HOMERIA.

(ho-MER-ee-ah)

—cochina.

HOME-1. 35¢

Beautiful clear orange fls; fugacious but plentiful; 1½ ft; easy; S. Af; grow like Ixia; HHB;(VII).

HOMOZYNE.

(ho-MO-gee-ne)

Small perennials with white or purple heads; found in the mountains of C. Eur.; they thrive in moist soils.

—alpina.

HOMO-1. 35¢

Yellow fls; 6"; HP.

HORDEUM.

(HORD-ee-um)

—jubatum.

HORD-1. 25¢

Squirrel-tail Grass. Drooping spikes; 2½ ft; for drying it must be cut before seeds are ripe; this can also be dyed; HB or HP.

—violaceum.

HORD-10. 50¢**HOARHOUND:** see Marrubium.**HOUSTONIA.**

/serpyllifolis.

PLANTS

Creeping Bluets. Decid; 4-6"; blue or white fls; early Spring; sun or part shade.

PLANTS; Each 45¢; 3-\$1.00; 25 for \$8.00.**HOVEA.**

—Celsii.

HOVA-1. 50¢

(elleptica) Sh; 6-8 ft; blue fls; good sh in South; semi-shade; W. Australia.

—lanceolata.

HOVA-5. 50¢

(longifolia) 5-8 ft sh; easy; purple fls; 8" shining lvs; far South.

—purpurea.

HOVE-6. 35¢

Attractive sh; 8 ft; covered in spring with masses of small purple pea-fls; good.

—tetracophylla.

HOVE-18. 50¢

Nice legume; purple to pale lilac fls; stands dry summers; seed requires heat treatment to germinate.

HOVENIA.

(hoh-VEEN-ee-uh)

Rhamnaceae. A few deciduous shs and trs from Asia.

—dulcis.

HOVA-1. 50¢

Japanese Raisin Tree. Easy; (IV); tr to 30 ft; fls green in many fl-racemes; thrives in sandy loam; fr edible.

Oz. 90¢; lb. \$3.50.

—glabra.

HOVA-1G. 50¢**Oz. 90¢; lb. \$3.50.**

—racemosa.

HOVA-10. 50¢**HOWEA.**

(HOW-ee-ah)

Palmaceae. Kentia Palm. Two showy and popular species grown in great numbers as tub plants.

—Belmoreana.

HOWE-1. 75¢

(Kentia B.) Greenhouse Palm of great beauty as tub plant. 100 seeds \$5.00; 1,000. \$23.00.

—Forsteriana.

HOWE-2. 75¢

(Kentia F.) Excellent greenhouse Palm;

tubs. 100 seeds \$4.00; 1,000, \$20.00.

NOTE: These should be fresh and therefore orders may be delayed in filling; if you wish them in quantity, book your order well in advance.**HOWITTIA.**

—trilocularis.

HOWI-12. 35¢

Tall shrub carrying masses of purple fls, 1" across; like a small Hibiscus blossom.

HUDSONIA.

(hud-SOH-nee-uh)

Beach-Heather. Small ev. shrubs with awl-like leaves and solitary yellow fls. Colonize in sandy soil; difficult to grow.

—ericoides.

HUDS-1. 25¢

Golden Heather. 6" bushy green shrub; golden mass of fls; seeds delivered in July; barren sandy soil.

—tomentosa.

HUDS-4. 35¢

Tufted plant; golden fls; 8 inches; HP.

HUMULUS.

(HEW-mee-lus)

Hop. Moraceae. Tall hardy twining vines; very ornamental for porches, etc; best to sow seed in heat during March and set out late in May.

—japonica.

HUMU-3. 25¢One of the most rampant and rapid growing of all climbers. Sow seed in pots in cold frame in April or where they are to grow; give support immediately; HA; 10-20 ft; trans; space 18". **Oz. 90¢; lb. \$7.00.**

—variegatus.

HUMU-3V. 25¢Foliage streaked and splashed with pure white. **Oz. 90¢; lb. \$8.00.**

—Mixed.

HUMU-3X. 20¢**HUNNEMANNIA.**

(hun-em-MAN-ee-uh)

—fumariaefolia.

HUNN-1. 25¢

Santa Barbara Poppy; Golden Cup. Yellow fls, 3" across; 2 ft; warm sunny spot; grow as TA; TP; space 12".

—Sunlite.

HUNN-1S. 25¢

A bright semi-double yellow variety.

HURA.

(HEW-ruh)

Euphorbiaceae. Trees of trop. Amer; and grown in far South or as juvenile pot plants in GH; best in light sandy soils.

—crepitans.

HURA-1. 50¢

Sand-box Tree. Greenhouse; (X). 100 seeds \$4.50. (krep-id-DAY-tans).

HUTCHINSIA.

Cruciferae. Small Draba-like annuals and perennials for the RG.

—alpina.

HUTC-3. 50¢

Tufted HP, to 4"; pure white fls.

HYACINTHUS.

(hye-uh-SINTH-us)

Hyacinth. Liliaceae. Bulbous plants of great garden value; some listed were formerly under Galtonia and Muscari. Bulbs can be had in the fall; see bulb list.

—amethystinus alba.

HYAC-1A. 25¢

Nodding white fls; 6" high; Spain; HP. (am-meth-THIST-in-us)

—candicans: see Galtonia candicans.

—ciliatus.

HYAC-2. 40¢

(azureus) Daintiest of the H; has short stems; China-blue; 3 inches.

—Sawraii.

HYAC-8. 50¢**HYDRANGAEA.**

(hye-DRAYN-jee-ah)

Saxifragaceae. Ornamental shrubs with showy terminal fls; sow seed thinly and cover lightly.

—macrophylla.

HYDR-13. 40¢

(hortensis) To 22 ft; hardy in V zone; grown in GH. Oz. 90¢.

—**paniculata.** **HYDR-15.** 35¢

To 30 ft; white fls. Lb. \$5.00.

—**serrata.** **HYDR-23.** 50¢

(Thunbergii, cuspidata) 6 ft; fls blue or white in corymbs, 3" ac; Japan. ½ Oz. \$1.00

HYDRASTIS. (hye-DRASS-tiss)

Ranunculaceae. Low perennial plants requiring a rich moist soil with much leaf mold; shade or open woods.

—**canadensis.** **HYDS-1.** 40¢

Golden Seal, Orange Root. Usually grown for its roots. Seed: \$3.00, per 100; 500 for \$5.00. **PLANTS:** 100 for \$10.00.

Seed best when fresh; plant 3-4 per hill, 1 ft apart each way or plant in seed bed 25-50 seeds per sq. ft, trans. when 1-2 yrs old; plant seed ¼" deep; shade 50-75%; cover bed with 1" straw or saw dust.

HYDROPHYLLUM. (hye-droh-FILL-um)

Water-Leaf. Hydrophyllaceae. HB and HP found in woods; wild garden.

—**capitatum.** **HYDP-4.** 40¢

Water Leaf. Woods flower; pink; 3"; HP

HYMENANTHERA. (hi-men-ANTH-er-uh)

—**crassifolia.** **HYMN-4.** 50¢

Low growing shrub with white berries; good for banks; 4 ft; (IX); N. Z.

—**obovata.** (ob-oh-VAY-tah) **HYMN-12.** 50¢

Very variable sh; gray bark and purple berries; 6 ft; (IX); N. Z.

HYMENOSPORUM.

Pittosperaceae. One Australian ev. tr or sh to 40 ft; hardy in the South.

—**flavum.** **HYMP-1.** 30¢

Yellow fls; Australian tree or shrub to 50 ft; (IX).

HYOSCYAMUS. (hy-oh-SYE-am-us)

Henbane. Solanaceae. Funnel-shaped fls in spikes, best in poor soils. They should be used in large borders; some are grown for medicinal purposes.

—**niger.** **HYOS-3.** 30¢

Greenish yellow fls, veined purplish; 2½ ft; HB or HA; Oz. 65¢; lb. \$6.00.

—**lutea.** **HYOS-3L.** 40¢

Nice yellow flowered variety.

HYPERICOPHYLLUM.

Pittosperaceae. One Australian ev. gr sh or tr to 50 ft; hardy in the South.

—**compositarum.** **HYPE-1.** 30¢

Pretty Rhodesian flower; 3-4 ft; bright orange.

HYPERICUM

St. John'swort. Hypericaceae. Very decorative perennials and shrubs, usually with bright yellow fls and many showy stamens. Grow best in a sandy loam in partial shade; they are not hardy in the North but with shelter and in protected spots can be grown in zone (IV); seeds sown thinly during Feb. and covered lightly, germinate freely; C-24.

—**calycinum.** **HYPR-12.** 50¢

Seed is very fine; sow carefully. C. s. Oz. \$1.00; lb. \$12.00.

—**Coris.** **HYPR-18.** 50¢

Sub-sh; 1 ft; fls in cymes; (VI).

—**Hidcote.** **HYPR-41.** 35¢

—**Hookerianum.** **HYPR-40.** 35¢

Sh to 6 ft; fls 2½" ac; far S; (X).

—**lanceolatum.**

Giant St John's-wort. Tree up to 20 ft; yellow fls 3" ac; attractive yard tree; likes cool moist conditions.

—**olympicum.** **HYPR-58.** 40¢

Shrubby; 9" high; large deep golden fls; HHS.

—**patulum.** **HYPR-60.** 40¢

Shrub to 3 ft; fls 2" ac; Japan; (V). c. s. Oz. \$100; lb. \$12.00.

—**Henry.** **HYPR-60H.** 40¢

—**perforatum.** **HYPR-61.** 30¢

HP; 2 ft; fls 1" ac; Herb.

—**polyphyllum.** **HYPR-63.** 40¢

Golden fls; sh; 6"; (VIII); Cilicia

—**grandiflorum.** **HYPR-63G.** 40¢

Dwarf, spreading; yellow fls. 1/8 Oz. \$3.50.

—**repens.** **HYPR-70.** 40¢

Golden carpet in late summer; prostrate shrub; (IX).

—**grandiflorum.** **HYPR-70G.** 40¢

Large plain flowers.

—**Mixed.** **HYPR-X.** 25¢

HYPOXIS. (hye-POZ-iss)

Star Grass. Amaryllidaceae. Basal grass-like leaves; root-stock or corms; useful in the wild garden or border; dry soil.

—**species (?)** **HYPX-4.** 25¢

Golden flowers; S. Rhodesia.

HYSSOPUS. (HISS-op-us)

Hyssop. Ornamental herbs useful as a culinary or medicinal herb. Light soils; lime; seeds germinate readily.

—**officinalis.** **HYSS-1.** 25¢

Hyssop. Blue fls; HP; start seed in the frame during March; transplant seedlings when 1" high to good limed soil; space 6".

—**roseus.** **HYSS-1R.** 30¢

IBERIS - CANDYTUFT

Candytuft. Cruciferae. These come in half-hardy annuals and evergreen perennials; easily grown from seed. The annuals can be sown the earlier part of May; germinate quickly and flower in a short time; in the South sow in the fall. Keep plants growing and well watered; clip the seed pods off as they easily go to seed; C-2.

I. AMARA: (coronaria) Rocket Candytuft.

Erect annuals; 1 ft; usually with large umbel-like flower heads; sow direct to garden; they do not transplant well.

The Hyacinth-flowered type; makes good GH fls started from late Nov. into Jan; 100 days to fls; transplant quickly; space 6 x 8".

Rose, lavender and Cardinal are excellent for GH growing; space 10 x 10".

—**amara.** **IBER-2.** 30¢

White Rocket. Oz. 75¢.

—**ICEBERG.** **IBER-2CB.** 30¢

A new Super Hyacinth Flowered florist Candytuft. Bloom size is unsurpassed in any strain and is truly the feature of this new Candytuft, making it the finest we have marketed. Six spikes are the general rule, growing about 12-15" high.

—**Giant White.** **IBER-2H.** 25¢

Large reselected florist strain. Oz. 60¢.

—**Giant Hyacinth-flowered.** **IBER-2F.** 25¢

Extra select strain; large compact heads.

Oz. 50¢.

—**coronaria.** **IBER-2C.** 20¢

- Flowers with white crown; pretty type.
 —**Empress nana.** **IBER-2E. 20¢**
 Dwarf, large white spikes.
 —**princeps.** **IBER-2P. 20¢**
 Very dwarf but with large heavy white
 —**White rocket.** **IBER-2R. 20¢**
 Will stand more unfavorable conditions.
 —**Miniature Gem.** **IBER-2M. 20¢**
 New; 4 inches high with 4-6 spikes per
 plant; nice edging.
 —**Above Mixed.** **IBER-2X. 20¢**

IBERIS UMBELLATA: Globe Candytuft.
 hardy annuals; not fragrant; commonly
 grown in the garden; bare open spots in
 woods or on slopes; C-2; HA; space 8".
 —**pinnaia.** **IBER-9. 40¢**
 Sometimes listed as affinis; this seed is
 true to name.

FAIRY CANDYTUFT.

- Fairy Candytuft.** **IBER-17F. 35¢**
 A really new and different Candytuft.
 The little dome-like plants are neat, dwarf
 and very compact, growing about 8" high
 and in pink, rose, carmine, crimson, lav-
 ender, flesh-pink and white. Ideal for
 borders or bedding or an annual hedge.
 1/2 Oz. \$2.00. ..
 —**Dunnett's Crimson.** **IBER-17C. 20¢**
 —**Carmine.** **IBER-17M. 20¢**
 —**purpurea.** **IBER-17P. 30¢**
 Dark red.
 —**Rose Cardinal.** **IBER-17Z. 20¢**
 Oz. \$1.00.
 —**White.** **IBER-17W. 20¢**
 —**Mixed.** **IBER-17X. 20¢**
 Above, except 17Z, Oz. 75¢.

OTHER SPECIES:

- jucunda.** **IBER-4. 25¢**
 Aethionema coridifolium) 4-6"; rosy lilac
 fls in racemes; pretty; HP; C-23. 1/16 Oz.
 \$1.60.
 —**gibraltarica.** **IBER-5. 25¢**
 Edging; large purple fls in flat clusters;
 10 in; warm spots on banks or rocky places;
 TP; C-23. 1/2 Oz. \$1.00.
 —**saxatilis.** **IBER-12. 40¢**
 Edging Candytuft. 12"; evergreen; white
 fls; RG; best in open spots; rocky banks,
 slopes or margins of shrubbery or woods;
 HP.
 —**sempervirens.** **IBER-14. 20¢**
 Pure white; edging; evergreen; HHP; C-23.
 1/2 Oz. \$2.00.
 —**Snowflake.** **IBER-14S. 30¢**
 Large pure white fls. 1/16 Oz. 25.00.
 —**Tenoreana.** **IBER-15. 30¢**
 (Pruittii) HP; ev; 6-8"; fls whitish or rose
 in short umbel-like racemes; Spain.
 —**Above species Mixed.** **IBER-X. 20¢**

IBICELLA.

Martyniaceae. S. Amer. plants; fls are in
 dense compact terminal racemes.
 —**lutea.** **IBIC-2. 35¢**
 (Marthynia, Proboscidea) TA; 1 1/2 ft; fls
 greenish yellow; fruits are used as pickles;
 Argentina.

IBOZA.

—**riparia.** **IBOZ-5. 35¢**
 Ginger Plant. Creamy white fls; dark an-
 thers; grow much like Salva or Coleus; S.
 Africa.

Get the Biennials started by August 15th.

IDESIA.

Flacourteaceae. Consists of but one tree
 native of China and Japan; hardy in South.
 —**polycarpa.** **IDES-1. 50¢**
 Fls greenish yellow, frag, 10" drooping
 panicles; orange-red berries. Oz. 90¢; lb.
 \$5.00.
 Very dwarf but with large heavy white

ILEX - HOLLY

Aquifoliaceae. Evergreen and deciduous
 trees and shrubs having glossy leaves and
 brilliantly colored berries. They are very
 ornamental but some species are not hardy
 in the North. They require an acid soil
 and the germination of the seed will be more
 successful if the soil used is mostly peat or
 decayed saw dust. Seed should be stratified
 as they germinate the 2nd year; the moist
 seed is benefited if exposed to freezing.

- Aquifolium.** **ILEX-2. 35¢**
 English Holly. c. s. Oz. 40¢; lb. \$2.40.
 —**variegatis.** **ILEX-2V. 40¢**
 —**cornuta.** **ILEX-9. 25¢**
 Shrubby to 10 ft; hardy in (V).
 —**crenata.** **ILEX-10. 25¢**
 Japanese Holly. To 20 ft; fine; sow in
 the fall for best germination.
 —**geniculata.** **ILEX-16. 30¢**
 Decid. sh from Japan; red berries. Oz. 90¢
 —**glabra.** **ILEX-17. 25¢**
 Ink-berry. Hardy in N; black fruit; for
 shade; ev; usually germinates 2nd yr; strat-
 ify helps.
 —**integra.** **ILEX-19. 50¢**
 —**laevigata.** **ILEX-21. 30¢**
 Winter-berry. Good; scarlet berries in
 clusters; swamps; 6 ft; stratify will help.
 —**latifolia.** **ILEX-26. 30¢**
 Tarajo. Ev. tr. to 50 ft; shining lvs 7"
 long; red berries; Japan. Oz. 95¢.
 —**opaca.** **ILEX-28. 35¢**
 —**paraguariensis.** **ILEX-29. 50¢**
 Evergreen shrub or tree to 30 ft; (X).
 —**pedunculosa.** **ILEX-30. 50¢**
 (fujisanensis) Ev Sh ro to 30 ft; bright
 red br on long stalks; Japan. Oz. 90¢; lb.
 \$6.00.
 —**purpurea v. Oldhamii.** **ILEX-33. 50¢**
 Tr to 50 ft; lvs narrower than purpurea;
 more leathery; Japan. Oz. \$1.00; lb. \$7.00.
 —**verticillata.** **ILEX-37. 20¢**
 Black Alder. Shrub to 10 ft; bright red
 berries; hardy.
 —**Mixed Ilex.** **ILEX-X. 20¢**

NOTE: I can furnish seed of ILEX in
 10-15 other species, if you are interested.

ILLICIAM.

Magnoliaceae. Ornamental ev. shs and trs;
 hardy in South.

- anisatum.** **ILLI-2. 30¢**
 Greenish yellow fls, 1" ac; small sh or
 tr; Japan. Oz. \$1.50.

IMPATIENS

Garden Balsam; Touch-me-not. Balsam-
 inaceae. Annuals and perennials, grown in
 the garden or greenhouse for their odd and
 showy flowers. They are all tender to frost.
 DW; most fl. in 12 wks from seed; sow in
 Apr. or May at 60 Fah or more.

I. BALSAMINA: The popular garden Bal-
 sam with its rose-shaped fls in white, lav-
 ender, lemon-yellow and many shades of
 red; sow in April in doors or in June

direct to the garden; rich sandy loam; ample moisture; 2 ft; germinates best at 75 deg. F; HHA; space 18"; trans; C-8.

- Single Mixed. IMPA-2SX. 25¢
- Carnolia-flowered Mixed. IMPA-2CX. 25¢
- Pure White. IMPA-2CW. 25¢
- Salmon-rose. IMPA-2CS. 25¢
- Carmine. IMPA-2CC. 25¢
- Scarlet. IMPA-2CL. 25¢
- Above: ½ Oz. 90¢.
- Double Bush Mixed. IMPA-2BX. 25¢
- Are ideal for bedding. Oz \$2.00.
- Scarlet. IMPA-2BS. 25¢
- Dwarf Mixed. IMPA-2DX. 20¢
- Rose Flowered, Mixed. IMPA-2ZX. 25¢
- Oz. \$1.50.

I. HOLSTII: Red-striped stems and flowers varying from white to scarlet; usually started in GH for summer border; TP; July to Oct; 1½-2 ft; space 1 ft apart; DW; C-55. These make first class pot plants.

- Carmine. IMPA-7C. 35¢
- nana, Liegnitzia. IMPA-7LN. 50¢
- Deep red color.
- Morganrote. IMPA-7M. 35¢
- A nice red German variety.
- Schoittenglut. IMPA-7S. 35¢
- A fine dark red.
- Salmon. IMPA-7N. 35¢
- Vermilion. IMPA-7V. 35¢
- Mixed. IMPA-7X. 25¢

I. SULTANII: Best known greenhouse

subject; a favorite house plant and easily grown the year around; can be grown out doors during frost-free period, in shade. Sow in March at least 60 deg. F; DW; C-55.

- Dwarf Brilliant Scarlet. IMPA-16S. 50¢
- An improvement over Dwarf Fiery Scarlet; fls are larger and the color an intense scarlet; very floriferous. 1/32 oz. \$2.00.
- nana Carmine. IMPA-16M. 25¢
- Karminzweg. IMPA-16K. 25¢
- Nice carmine variety.
- Liegnitzia nana. IMPA-16L. 50¢
- Dwarf; vermilion-red fls.
- Mixed. IMPA-16X. 35¢
- uniflora. IMPA-3. 50¢
- Jewel-weed. HA; 5 ft; fls orange-yellow spotted with reddish brown, 1" long; quite handsome; Alaska.

INCARVILLEA. (in-kahr-VIL-ee-ah)

Bignoniaceae. Showy and fairly hardy perennials from China, producing terminal clusters of red and yellow tubular flowers above a basal group of vivid green leaves. Sow seeds up to Aug. for next season's flowers; give winter protection in N; seed definitely requires a cold spell to germinate; C-24.

- Delaveyil. ICAR-2. 25¢
- Rose-purple fls, with yellow tubes; very nice; 2 ft; HP; sow Mar at 55 degrees or Apr-May in cold frame or Sept. Oz. \$3.00.
- grandiflora brevipes. ICAR-4B. 35¢
- Crimson-purple fls; Gloxinia-like; RG; 10"; HP. Oz \$2.50.
- yonghusbandii. ICAR-18. 50¢
- Rosy pink; rare.
- variabilis. ICAR-9. 30¢
- Cream to pale rose; tubular; everbearing; easy; HB.
- Mixed. ICAR-X. 20¢

INDIGOFERA. (in-di-GO-fe-rah)

Indigo. Leguminosae. Pretty ornamental plants for the border or shrubbery, many of which are not hardy in the far North. Some can be grown in the GH or for window treat-

ments; best to sow seed during Feb; pot up seedlings in pots till wanted or permanent locations.

- Dosa. INDI-5. 25¢
- Red fls in racemes; low shrub; India; TP. Oz. \$1.30.

INGA. (IN-guh)

Leguminosae. Trees and shs from tropics; useful as shade trees in far South.

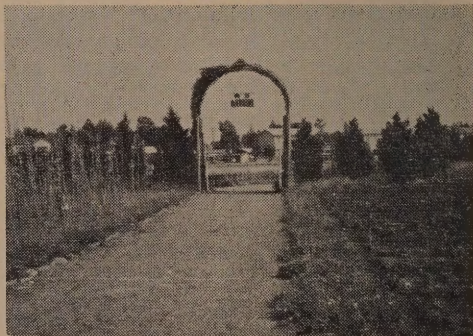
- dulcis: see *Pithecellobium dulce*.
- pulcherrima: see *Calliandra Tweedii*.
- Saman: see *Samanea saman*.

INULA. (IN-yu-la)

Compositae. Showy herbaceous perennials, most of which are hardy in the North; large daisy-like heads of yellow or orange flowers. They make a brilliant display and grows well in average soil but requires a sunlit; should be grown for its medicinal properties, roots excellent as stomach tonic; N. Asia; HP.

- glandulosa. INUL-6. 20¢
- Solitary orange heads; 4 tf; HP; C-23.
- Helenium. INUL-9. 50¢
- Elecampane. Yellow fl-heads, 4" ac; 8 ft; HP; the root is a valuable medicinal herb in chest caught; the whole plant is rich in inulin.
- magnifica. INUL-15. 30¢
- Fl-heads yellowish orange to 6" ac; HP to 4 ft; Caucasus.
- Oculus-Christii. INUL-17. 25¢
- Pretty yellow heads; 2-3 ft; HP.
- Royleana. INUL-19. 50¢
- Orange-yellow fl-heads, 4" ac; 2 ft; HP.
- salicina. INUL-20. 20¢
- Golden yellow; 1½" across; 2 ft; HP.
- aspera. INUL-20A. 25¢
- thapsioides. INUL-23. 20¢
- Mixed. INUL-X. 20¢

IPOMOEA



THE OZAKI STRAIN OF MORNING GLORIES GROWING FOR OUR SEED IN COLORED JAPANESE PACKETS

We now have a supply of most varieties in the colored Japanese packets; due to their being filled in Japan at our branch, the nemes are in Japanese, but if wanted in the colored packets, please note when ordering; the symbol number only can be made here on each packet.

GROWING THE GIANT FLOWERS

If you wish to grow flowers 8 inches across it is necessary to grow them in pots and train them on a spiral support; the lateral buds are pinched off as they appear

and the flower grown as a terminal flower, thus producing larger blooms as is the case in Carnations or Chrysanthemums. We hope to get time to print a small culture direction especially for these large flowers, which can go with the seeds.

Morning Glory. *Convolvulus.* They are mainly twining annual and perennial vines. The genus is widely distributed and comes in many kinds and habits. They are all easily grown from seed; file a notch in seed for better germination. All tender to frost. See *Convolvulus* and *Quamoclit* for other closely related forms.

NEW GIANT FLOWERING JAPANESE:

These flower up to 8" across and in a varied color range; in Japan they are usually grown in 6-8 inch pots, outdoors, and pinched and shaped into a bushy form; when in flower they can be brot into the house; can be grown outside in ordinary way but flowers are not so large; they will not stand winds and the ordinary rough treatment the common Morning Glories will take.



MR. OZAKI IN SEED PLANTING OF OUR GIANT JAPANESE MORNING GLORIES

NOTE: If you wish to make a small gift of these beautiful flowers we will send them in pretty colored Japanese packets, showing the color of each variety; colored packets available for nearly all varieties. Packets contain about ten seeds each.

- Akatsuki No Keisei. IPOM-19AK. 30¢
Deep red with white markings.
- Beni Jishi. IPOM-19BJ. 25¢
Brilliant red flowers.
- Chiyo No Ai. IPOM-19CA. 25¢
Deep blue.
- Chiyo No Okina. IPOM-19CO. 25¢
Blue, edged white.
- Chiyo No Tsuyu. IPOM-19CT. 25¢
Large light sky-blue; showy white base.
- Chiyo No Yuki. IPOM-19CY. 25¢
Pure white flowers.
- Dai-Nichirin. IPOM-19DN. 25¢
Deep carmine-red or scarlet.
- Fikan. IPOM-19EK. 25¢
Deep carmine with white edge; uncommon color.
- En Nen No Mai. IPOM-19EM. 25¢
Silvery gray with white.
- Fuji. IPOM-19FJ. 25¢

- Deep carmine-red.
- Fuku Musume. IPOM-19FM. 25¢
Purple-rose with a white edge.
- Heian No Hokari. IPOM-19HH. 25¢
Deep carmine-red with white edge.
- Heian No Kasumi. IPOM-19HK. 25¢
Cherry-red with white edge.
- Heian No Yume. IPOM-19HY. 25¢
Purplish rose with snow flake white.
- Heian No Yorohibi. IPOM-19HO. 25¢
Deep red with white edge.
- Heian No Sakae. IPOM-19HS. 25¢
Brown with white edge.
- How-Nen. IPOM-19HD. 25¢
Deep brown with white edge.
- Hanagasa. IPOM-19HG. 25¢
Deep red with lighter red markings.
- Hyukan. IPOM-19AK. 25¢
Brilliant red with white edge.
- Kagetsu. IPOM-19KU. 25¢
Deep rose self.
- Kiso No Tsukh. IPOM-19KT. 25¢
Deep reddish brown with white.
- Furusato. IPOM-19FR. 25¢
Lavender-gray spotted white.
- Hatsu Arashi. IPOM-19HA. 25¢
Purple-blue.
- Himomaru. IPOM-19HM. 25¢
Pure white with showy red base coloring.
- Matsu No Midori. IPOM-19MM. 25¢
Light blue with white markings.
- Miyuki Sakura. IPOM-19MZ. 25¢
Rose with white.
- Matzukaze. IPOM-19MS. 25¢
Mulberry-like leaf; lovely shade of violet with white; fls to 8" across.
- Okina No Warai. IPOM-19OW. 25¢
Deep brown color.
- Otome No Mai. IPOM-19OM. 25¢
Lovely white with light red markings.
- Suiko No Hikari. IPOM-19SH. 25¢
Deep red with white markings; giant fls.
- Shugeitsu. IPOM-19SG. 25¢
Lovely light brown; unusual color.
- Seiran. IPOM-19SR. 25¢
Deep blue with white flakes.
- Tama Fuyo. IPOM-19TF. 25¢
Mulberry-like leaf; lovely light purple.
- Shinsekai. IPOM-19SK. 25¢
Deep purplish red with white edge.
- Tenshin. IPOM-19TE. 25¢
Pure white.
- Yashiro No Aki. IPOM-19YA. 25¢
Deep brown edged white with strips on edges.
- Yuki. IPOM-19YK. 25¢
Brown with white markings.
- Yoi Machi. IPOM-19YM. 25¢
Lovely shade of purple, marked white.
- Mixed. IPOM-19X. 25¢
Contains a blend of above varieties; about 15 seeds per packet. Oz. \$2.50.

I. PURPUREA: Below are listed the large flowered varieties. These are excellent for the average garden and are not difficult to grow. Best in dry sandy soil; they do not flower well if too wet; 10 ft. climber; C-4.

- Blue Star. IPOM-1B. 20¢
NEW. Blue, with white center. Oz. 70¢.
- Candy Pink. IPOM-1CP. 25¢
New bright pink Ipomoea.
- Cornell. IPOM-1C. 20¢
Beautiful cornelian-red, bordered with white; showy. Oz. 75¢.
- Crimson Rambler. IPOM-1CR. 20¢
Carmine with white throat. Oz. 75¢.
- Darling. IPOM-1D. 25¢
Striking wine-red with snowy white throat.
- Heavenly Blue. IPOM-1H. 20¢
Sky-blue shading to golden yellow in its

throat; early strain. Oz. 75¢.

—**Madam Anna.**

A new French variety; white and red.

—**Pearly Gates.**

Pure white, faint creamy sheen in center.

Oz. 83¢.

—**Rose Marie.**

IPOM-IRM. 25¢

Only double; deep rose; early.

—**Scarlet O'Hara.**

IPOM-IS. 20¢

Dark wine-red; showy; popular. Oz. 80¢.

—**Summer Skies.**

IPOM-ISS. 20¢

Large flowered sky-blue.

—**White Magic.**

IPOM-IW. 20¢

Large fleecy white, blending to cream in throat.

—**Above Mixed.**

IPOM-IX. 20¢

Oz. 60¢; lb. \$5.00. Any above varieties: 80¢ Oz. except as priced otherwise.

—**Double Mixed.**

IPOM-IDX .35¢

OTHER IPOMOEAE SPECIES:

—**bona-nox.**

IPOM-4. 35¢

(Calonyction) Moonflower. White fls.

—**dissecta.**

IPOM-8. 50¢

Twining perennial; white with purple throat; Texas.

—**hederacea.**

IPOM-10. 35¢

Ivy-leaved; (Mina sanguinea).

—**hederacea superba.**

IPOM-10S. 25¢

Improved form; blue or blue-purple.

—**grandiflora.**

IPOM-10G. 25¢

Leaves are striped white in this form.

—**hederifolia:** see also under **Quamoclit** **coccinea** varieties.

—**lindheimii.**

IPOM-16. 40¢

—**nociflora:** see **Calonyction aculeatum.**

—**setosa.**

IPOM-34. 30¢

Brazilian M. G. Large pink fls; sow seed early; TA.

—**Above Species Mixed.**

IPOM-X. 25¢

IRIS

Iridaceae. The species come true from seed but the common garden varieties are hybrids and do not come true. Sow the seeds as soon as ripe or in the spring; they germinate early in spring; C-24; where seed may be a year old, shade bed during summer; keep moist and be sure seed is covered.

—**aurea:** see **crocea.**

—**bastardi.**

IRIS-21. 30¢

—**cengialti.**

IRIS-37.1 50¢

—**Chamaeiris.**

IRIS-39. 25¢

(Pogon) Very pretty; 12"; right after the dwarf Iris; nice colors.

—**Chrysographes.**

IRIS-13. 40¢

—**Clarkei.**

IRIS-50. 30¢

Much like **siberica**; has attractive seed pods.

—**crocea.**

IRIS-15. 40¢

Golden yellow fls; 3 ft; Kashmir.

—**Douglasiana.**

IRIS-65. 30¢

Native Calif-Ore; 15"; various colors.

—**esca'a.**

IRIS-69. 30¢

China. Lilac to white; 3 ft.

—**Suwarowii.**

IRIS-69S. 30¢

—**Peking Form.**

IRIS-69P. 30¢

—**fulva.**

IRIS-85. 50¢

Rhizomatous; native Ill; south to Gulf.

Deep copper tones.

—**fratidissima.**

IRIS-77. 30¢

Gladwin. Especially grown for its striking pods in fall with its display of scarlet seeds.

—**innominata.**

IRIS-119. 35¢

The original lilac form; Oregon.

—**Louisiana, Mixed.**

IRIS-150X. 40¢

Hybrids; large seed.

—**missouriensis.**

IRIS-167. 30¢

Pale pink reticulated brown stripe; lime free soil or bog.

—**pseudacorus.**

IRIS-191. 40¢

Yellow Flag. May-June; yellow clusters.

—**pumila.**

IRIS-193. 40¢

Saved from **pumila** varieties. Oz. \$2.00.

—**ruithenica.**

IRIS-207. 50¢

Deep violet; early; foliage grass-like.

—**setosa.**

IRIS-211. 40¢

Collected in Alaska; light lilac or purple fls with reddish tinge.

—**siberica.**

IRIS-215. 30¢

Saved from best varieties.

—**Snow Queen.**

IRIS-215S. 25¢

Pretty white with Orchid-like fls; extra nice.

—**songulisa.**

IRIS-223. 25¢

—**spuria.**

IRIS-225C. 30¢

Cream variety.

—**tectorum.**

IRIS-233. 40¢

—**tenax.**

IRIS-234. 40¢

Grassy lvs; fls on 6" stems, varying from orchid-lavender to purple with occasional yellow or navy blue; like miniature Japanese Iris; Oregon.

—**vericolor.**

IRIS-152. 30¢

Blue Flag. Lav-blue fls; will stand moist places.

—**verna.**

IRIS-157. Plants

Vernal Iris. Violet-blue with yellow center; 4-8"; wild garden or shade or part.

PLANTS: 45¢ each; 3 for \$1.00.

—**Xiphinum.**

IRIS-280. 40¢

Spanish Iris. From selected plants.

ISATIS.

(Y-sah-tis)

Woad. Cruciferae. Annuals, biennials and perennials. They are erect or branching with small yellow flowers from May to July; native of Medit. regions; easy to grow.

—**glaucia.**

ISAT-3. 25¢

Flowers in yellow clusters; border; 4 ft;

—**tinctoria.**

ISAT-7. 35¢

Dyer's Weed. 3 ft; HB; yellow fls in terminal panicles.

ISOLEPIS: see **Scirpus.**

ISOLOMA.

(eye-soh-LOH-muh)

Gesneriaceae. Tropical plants with creeping roots; scarlet or orange fls; showy; GH; there many hybrids; TP; C-33.

—**petiolaris.**

ISOP-13.450¢

—**kohleria.**

ISOL-5. 40¢

(I. hersutum) 4 ft; GH; TP.

ISOPOGON.

Proteaceae. Australian shs with fls in dense cone-like spikes; grown in far South.

—**roseus.**

ISOP-15. 50¢

Rose Cone-flower. An attractive Aust. shrub; 2-3 ft.

IXIA.

Iridaceae. S. Af. plants with grass-like lvs; not hardy in N; can be grown in pots in GH same culture as for **Gladiolus.**

—**monodelpha.**

IXIA-14. 35¢

Star-like fls, lilac with red or green basal blotch; 1 ft; May.

—**Mixed Species.**

IXIA-X. 30¢

Very early from seed; (VIII).

IXIOLIRION.

(ix-ee-oh-LIHR-ee-on)

Amarylloidaceae. Bulbous Asian plants; mostly basal lvs; blue or violet fls in umbels.

—**montanum.**

IXIO-2. 30¢

(I. Ledebouri) 1 ft; purple fls.

If you want some pretty colored Corn you should grow the Saier Strain of Rainbow Corn; just about every color!

JACARANDA.

(jak-ar-RAND-uh)

Bignoniaceae. Tropical American shrubs and trees; funnellform blue or violet fls in panicles; grown in GH in North.

—**acutifolia.**

Fern-like leaves; blue fls, $1\frac{1}{2}$ " across; good GH plants; (X); ornamental tree; (J. mimosiolia).

JACA-1. 35¢**JASIONI.**

(jaz-e-OH-nee)

Campanulaceae. Annuals and perennials with sky-blue or white fls borne in heads; useful in border or rockery; easily grown.

—**humilis.**

Blue fls in short stalked heads, $\frac{1}{2}$ " ac; 9"; HP; Pyrenes.

JAS-2. 40¢—**montana major.**

Pale blue fls on heads 1" ac; HB; 1 ft.

JAS-4M. 25¢—**perennis.**

Blue fl-heads, 1" ac; 1 ft; HP; attractive little plants in light blue.

JAS-5. 25¢**JASMINUM.**

(JASS-min-um)

Jasmine. Oleaceae. Very attractive warm region shrubs; very attractive; in the North they are good GH plants.

—**floridum.**

Yellow fls $\frac{1}{2}$ " ac; many flowered cymes; erect; half evergreen; China.

JASM-12. 50¢—**fruticans.**

Yellow fls; 9 ft; (VIII).

JASM-15. 50¢**JATROPHA.**

(JAT-roh-hah)

Euphorbiaceae. Tropical plants, shrubs and trees suitable for out door growing in the South.

JUGLANS.

(JOO-glanz)

Walnut. Juglandaceae. Deciduous trees grown for their nuts, ornament and valuable lumber. Seed best planted in the fall; they can be easily dropped into a small hole made by a cane; plant them near woods and other marginal places; seed can be planted in flats as soon as possible after ripening; place outside till spring when they should be potted singly into deep pots and placed inside where they germinate readily.

Japanese Note: A caution from our Japanese grower of the new Walnuts listed this year, says to plant the nut on its side with dividing line up, not at side and do not set on end.

—**ailanthifolia.**

Tree to 60 ft; Japan. Lb. 90¢.

JUG-1. 50¢—**cordiformis.**

Has heart-shaped leaves; 60 ft; Japan.

JUG-1C. 50¢—**cinea.**

Butternut. (III); grows along rivers; nut is exceptionally good. Lb. \$1.50.

JUG-4. 50¢—**nigra.**

Black Walnut. Nuts very nice; large tree. Lb. 75¢.

JUG-10. 40¢—**regia.**

English Walnut. Hold seeds over in sand and plant only in the spring; (VII). Lb. \$1.00.

JUG-11. 50¢—**Sieboldiana.**

70 seeds to lb.

JUG-14. 50—**cordiformis.**

NOTE: Walnuts seed should be ordered early in summer and then wait for fresh seed. Try planting a Walnut seed here and there in your rambles!

JUG-14C. 50¢

When ordering rare sorts of seeds always include a few substitutes to avoid refunds.

JUNCUS.

Rush. Junicaceae. Glabrous stiffish plants, usually found on low ground.

—**acutifolius.****JUNC-2. 30¢**—**pauciflorus.****JUNI-10. 40¢**—**polyanthemus.****JUNC-13. 40¢****JUNIPERUS**

Juniper. Cupressaceae. Mostly small trs or shrubs; many are very ornamental and other valuable timber. Seed germinates rather slowly unless it has been stored in a mixture of sand and peat, equal parts and left in cold place or outside, protected from the wet. Sow this seed early in the spring when it germinates readily; watch seed late in the winter to prevent seed germinating in which case place in refrigerator at just above freezing; fall sowing is also good.

Seed does not germinate well above 50-55 Fah; soak or wash seed first in very warm water to soften seed coat.

—**chinensis.**

Very ornamental tree; hardy in (IV); best sown in spring. Oz. 70¢; lb. \$4.00.

JUNI-1. 35¢—**aurea.**

Common Jun. d. b. Oz. 50¢; lb. \$1.50.

JUNI-1A. 35¢—**communis.**

The most beautiful of the Chinese Junipers. 100 seeds \$4.00.

JUNI-6. 30¢—**elegans.**

—**v. niponica.**

JUNI-5E. 50¢—**conferia.**

(litoralis) Shore J. Procumbent sh; (IV); Japan. Oz. 95¢; lb. \$7.50.

JUNI-7. 40¢—**horizontalis glauca.**

Blue Creeping J. c. s. Oz. 2.00; lb. \$12.00.

JUNI-15. 40¢—**monosperma.**

Cherrystone J. Tr to 50 ft; dark blue fr; good for far South. Oz. 90¢; lb. \$6.00.

JUNI-18. 40¢—**Oxycedrus.**

Prickly Juniper. Shrub to 30 ft; (X).

JUNI-23. 35¢—**pachypharea.**

Alligator Juniper. Tree to 60 ft. c. s. Oz. 50¢; lb. \$2.50.

JUNI-24. 35¢—**phoenicea.**

Shrub or tree to 20 ft; (IX). Oz. 60¢.

JUNI-26. 35¢—**pseudosabina.**

Low shrub; Turkehtan.

JUNI-32. 50¢—**recurva.**

Tree to 30 ft; Himalayas; (IX).

JUNI-34. 50¢—**rigida.**

Needle Juniper. Pyramidal shrub to 30 ft; hardy in N; protect form heavy wind.

JUNI-35. 40¢—**scopulorum.**

Silver Juniper. Tree to 30 ft. c. s. Oz. 90¢; lb. \$8.50.

JUNI-39. 40¢—**thurifera.**

Tree to 40 ft; (IX). Oz. 50¢; lb. 25.75.

JUNI-45. 40¢—**utahensis.**

Utah Juniper; (IV). c. s. Oz. 50; lb. \$4.50.

JUNI-46. 40¢—**virginiana.**

Red Cedar. Sow seed in spring or they can be stratified as with Junipers. c. s. Oz. 50¢; lb. \$5.00.

JUNI-48. 25¢—**argentea.**

Leaves and young shoots silvery. Oz. 60¢; lb. \$4.50.

JUNI-48A. 40¢—**argentea.**

NOTE: Red Cedar. Sow seed in spring or they can be stratified as with Junipers. c. s. Oz. 50¢; lb. \$5.00.

JUNI-48A. 40¢—**argentea.**

Leaves and young shoots silvery. Oz. 60¢; lb. \$4.50.

JUNI-48A. 40¢—**argentea.**

NOTE: Red Cedar. Sow seed in spring or they can be stratified as with Junipers. c. s. Oz. 50¢; lb. \$5.00.

JUNI-48A. 40¢—**argentea.**

Leaves and young shoots silvery. Oz. 60¢; lb. \$4.50.

JUNI-48A. 40¢—**argentea.**

NOTE: Red Cedar. Sow seed in spring or they can be stratified as with Junipers. c. s. Oz. 50¢; lb. \$5.00.

JUNI-48A. 40¢—**argentea.**

Leaves and young shoots silvery. Oz. 60¢; lb. \$4.50.

JUNI-48A. 40¢—**argentea.**

NOTE: Red Cedar. Sow seed in spring or they can be stratified as with Junipers. c. s. Oz. 50¢; lb. \$5.00.

JUNI-48A. 40¢—**argentea.**

Leaves and young shoots silvery. Oz. 60¢; lb. \$4.50.

JUNI-48A. 40¢—**argentea.**

NOTE: Red Cedar. Sow seed in spring or they can be stratified as with Junipers. c. s. Oz. 50¢; lb. \$5.00.

JUNI-48A. 40¢—**argentea.**

Leaves and young shoots silvery. Oz. 60¢; lb. \$4.50.

JUNI-48A. 40¢—**argentea.**

NOTE: Red Cedar. Sow seed in spring or they can be stratified as with Junipers. c. s. Oz. 50¢; lb. \$5.00.

JUNI-48A. 40¢—**argentea.**

Leaves and young shoots silvery. Oz. 60¢; lb. \$4.50.

JUNI-48A. 40¢—**argentea.**

NOTE: Red Cedar. Sow seed in spring or they can be stratified as with Junipers. c. s. Oz. 50¢; lb. \$5.00.

JUNI-48A. 40¢

KALANCHOE

Crassulaceae. Succulent shrubby perennials with fleshy oval leaves and a mass of brightly colored flowers that last for several weeks. Grown out doors in the South and excellent greenhouse plants in the North. For winter fls start seed in the spring, using a gritty soil; sunshine; plenty of water while growing; C-56.

Seed sown Jan. 1st will be ready for St. Valentine's Day a year following; 2 plants eo 4" pot or 3-5 in 4 to 6" pot.

- Brausefeldiana*. **KALA-3. 50¢**
Scarlet fls. 1/64 Oz. \$5.00.
- Fire Blossom*. **KALA-3F. 50¢**
Valuable, floriferous florist plant; large brilliant scarlet blooms, 1/2-1" ac. 1/32 Oz. \$5.00.
- Ernest Thiede*. **KALA-3T. 50¢**
Bright red fls; 1 ft; fine. 1/64 Oz. \$7.00.
- lanceolata*. **KALA-14. 40¢**
Orange fls on 2 ft stems.
- thymiflora*. **KALA-30. 40¢**
Yellow fls, 1/2" long; 2 ft.
- zambawensis*. **KALA-38. 40¢**
Orange-red fls in small dense cymes; 1 ft.
- Mixed. **KALA-X. 30¢**

KALE.

Sow seed from June to early July and when large enough, transplant out doors. They want show color till the weather gets down to 40° ah. If you pot them and keep just above freezing point they will hold their color 2-3 months; they want stand much heat.

ORNAMENTAL LEAF TYPES:

Lvs either round or fringed; as winter winter advances the green lvs turn to a showy tint of white to pink and deep purplish red; very showy for early winter decorations.

- Christmas Fringed*. **KALE-1CF. 30¢**
White variety.
- Red. **KALE-1CR. 30¢**
- Osaka, White. **KALE-1SW. 30¢**
Round leaves.
- Red. **KALE-1SR. 30¢**
Oz. 90¢ on any of above.

KALMIA.

(KAL-mee-uh)

Ericaceae. Most species are hardy in the North; very ornamental evergreen shrub for sandy or peaty soils; lime-free soil; sow seed in pans of sandy peat or milled sphagnum. Sow seed during Feb. in peaty soil; leave seed uncovered; seedlings damp-off easily.

- latifolia*. **KALM-6. 30¢**
Calico Bush; Mt. Laurel. Broad-leaf ev. shrub; mass of pretty pink to white fls; June-July; prefers sandy or rocky soils. c.s. Oz. \$1.25; lb. \$9.50.

KALOPANAX.

Araliaceae. (Acanthopanax).

- pictus*. **KALO-1. 30¢**
Tree to 75 ft; lvs 1 ft. ac; whitish fls in umbels; Japan. (Acanthopanax ricinifolius) very good and should be grown more. Oz. \$1.00; lb. \$15.00. Seeds take up to 2 years to germinate.

KENNEDIA.

(ken-NEED-ee-uh)

Leguminosae. Showy trailing or climbing shrubs native of Australia and hardy to zone (IX). They are also good GH subjects.

- Comptoniana*: see *Hardenbergia*.
- rubicunda*. **KENN-8. 40¢**

A vigorous climber with large dark red pea-flowers; seed germinates readily if put into hot water before planting; plant to its permanent location early as it forms very vigorous roots early in life.

- prostrata*. **KENN-10. 30¢**
Prostrate legume; very choice; pinkish red fls all summer; beautiful lvs; (VIII); good in hanging baskets.

KENTIA.

(KEN-te-ah)

Palmaceae. The genus has been broken up much of late. Listed here are the common trade names; C-45.

- Belmoreana*: see *Howea*.
- Forsteriana*: see *Howea Forsteriana*.

KERRIA.

(KEHR-ree-uh)

Rosaceae. Popular Chinese deciduous shrubs with green stems; ornamental; hardy in the North.

- japonica*. **KERR-1. 30¢**
Golden yellow fls 2" ac; easy from seed. Oz. 75¢; lb. \$5.00.

KIGELIA.

Bignoniaceae. Trees of tropical Af; (XI); fls bell-shaped, orange or red; 2-lipped; in drooping panicles.

- pinnaia*. **KIG-5. 40¢**
Sausage Tree. S. Af. tree; to 50 ft; claret fls, 3" long; curious fruits.

KNAUTIA.

Dipsacae. Perennials with long stalked heads of fls, similar to Scabiosa.

- arvensis*. **KNAU-2. 40¢**
HP; 4 ft; lilac heads; Caucasus.
- drymeia*. **KNAU-4. 30¢**
Reddish violet to purple fls in heads, 2" ac; 3-4 ft; Balkans; (IV).

KNIPHOFIA

Tritoma, Torch Lily, Poker Plant. Liliaceae. Most striking garden plant flowering in the fall, with their dense cigar-shaped spikes of red or yellow tubular flowers. Seed sown indoors very early will flower same season; in severe climates the plants can be dug up and wintered over in a frost-proof cellar.

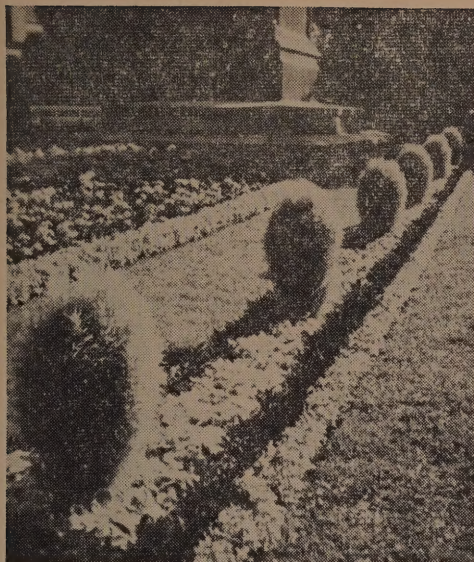
- Empress*. **KNIP-1M. 25¢**
(Stark's Early Hybrid). 1/4 Oz. 60¢.
- Pfitzer's Hybrids*. **KNIP-1P. 25¢**
Large brilliant reds; HP. 1/2 Oz. 90¢.
- Early Hybrids*. **KNIP-1E. 25¢**
California grown strain; early.
- mirabilis*. **KNIP-1Y. 30¢**
Yellow..... 1/4 Oz. 60¢.
- G. Fl.* **KNIP-19G. 35¢**
Fiery red with yellow. 1/4 Oz. 60¢.
- Uvaria Hybrids*. **KNIP-18. 25¢**
Fiery red with yellow. Oz. 1.50.
- luckii, Mav Queen*. **KNIP-1Q. 35¢**
Early; dark rose fls with cream yellow.
- verreirea Hybrids*. **KNIP-19. 25¢**
Creamy white and coral-red fls; HP.
- zombensis*. **KNIP-21. 35¢**
From S. Rhodesia; red and yellow huds; grows in swamps, very nice; tall.
- Kniphofia Mixed*. **KNIP-X. 20¢**

KOCHIA.

(KOH-kee-uh)

Summer Cypress. Chenopodiaceae. Popular hedge or border plants; the foliage turns red in the fall; tender annuals; start indoors in March or outside in May; for well-shaped plants keep thinned; C-7.

- scoparia v. trichophila*. **KOCH-2T. 20¢**



KOCHIA—SUMMER CYPRESS

Summer Cypress; Belvedere. This is usually listed as *K. Childsii*. Globular dense bushes of medium green turning red after a frost; makes nice hedges or specimen plants; plant 3-5 seeds in 3" pot, thin to one in April; 2-3 ft; space 18"; HA. Oz. 50¢; LB. \$1.80.

KOELREUTERIA. (kel-roo-TEER-ee-uh)
Sapindaceae. Trees native of Japan and China; they are very ornamental; fls in terminal panicles.

—*paniculata*. **KOEL-6.** 25¢
Golden Rain Tree. (IV); seed can be planted in the fall or stratify and plant in the spring; it is one of the very few yellow flowered trees; 30 ft; (V); ideal in central states. Oz. 58¢; lb. \$3.50.

KOLKWITZIA. (kol-KWITS-ee-uh)
Caprifoliaceae. Showy Chinese shrubs hardy in N; 9 ft; seed requires freezing, so plant in fall if possible; spring sowing soak seed and freeze before placing in soil.

—*amabilis*. **KOLK-1.** 30¢
Beauty Bush. Very showy Chinese deciduous shrub; 8 ft; (IV); bell-shaped pink fls; May-June.

KOSTELETZKYA.
Malvaceae. Similiar to *Hibiscus* with arrow-shaped lvs; fls in pink, purple and white.

—*virginica*. **KOST-5.** 40¢
Pink fls, 2½" ac in terminal panicles; 4 ft; (IV); HP.

KRAIZIA.
—*longiflora*. **KRAI-12.** 60¢

KRUHSIA.
Liliaceae. Closely related to *Streptopus*; flowers wheel-shaped instead of bell-shaped.
—*streptopoides*. **KRUH-15.** 50¢
Fls wheel-shaped; Alaska.

KUDZU VINE: see *Pueraria Thunbergiana*.

LABURNUM. (lab-BURN-um)
Leguminosae. Ornamental shrubs and trees, most of which are hardy to (IV) zone. Sow seeds thinly and press into soil; Feb.
—*alpinum*. **LABN-2.** 50¢
Scotch Laburnum (*Cytisus alpinum*); VII.
—*anagyroides*. **LABN-4.** 50¢
Golden Chain; Bean Tree. (VII). Oz. 60¢.
—Mixed. **LABN-X.** 30¢

LACTUCA. (lak-TEW-kuh)
Tall annuals and perennials of which only a few have ornamental value. The garden Lettuce belongs to this genus.
—*Bourgei*. **LACT-2.** 35¢
Flower bracts and rays lilac or blue; 6 ft; good back ground subjects; July-Aug; HP.
—*Plumeri*. **LACT-12.** 40¢
To 6 ft; large fls, rays purple; HHP.

LAGERSTROEMIA. (lay-gur-STREM-ee-ah)
Lythraceae. Ornamental trees and shrubs with showy flowers in panicles followed by capsular fruits. Grown out doors in the South or as pot plants in the North.

—*indica Hybrids*. **LAGR-2.** 25¢
Crape Myrtle. (VIII). c.s. Oz. 75¢; lb. \$3.00.
—*speciosa*. **LAGR-3.** 40¢
(Flos-Reginae) Queen C. M. Showy tr; (IX). ½ Oz. 75¢.
—*Rose*. **LAGR-3Z.** 40¢
Queen of Flower. (IX). Oz. 85¢.
—*Double Pink*. **LAGR-3P.** 40¢
Oz. \$1.75.
—*White*. **LAGR-3W.** 40¢
Rare. Oz. \$2.00.
—*tubinata*. **LAGR-4.** 50¢
—Mixed. **LAGR-X.** 30¢

LAGUNARIA. (lag-yew-NAY-ree-uh)
Malvaceae. One native tree from Australia; hardy up to (IX) zone.

—*Paterstonii*. **LAGU-1.** 30¢
(*L. paterstonii*; fugosia) Lovely pink fls. even on young plants; beware of the sharp hairs inside the fruits.; (X). 100 sds \$1.25.

LAGURUS. (lag-YEW-rus)
Gramineae. One ornamental annual grass.
—*ovatus*. **LAGS-1.** 25¢
Hares-Tail-Grass. Attractive plume-like spikes; sow in open ground in April; to dry cut immediately after the fls open; HA; 1 ft; July-Sept; space 6".

LAMPRANTHUS.
Upright shrub with long, nearly cylindrical lvs; fls usually in masses, in large white yellow, rose to violet; nice ornamental growth; excellent room plant; place in full sun in open during summer.

—*amoenus*. **LAMP-4.** 50¢
Pale magenta fls; 3 ft.
—*aureus*. **LAMP-6.** 50¢
Nice; golden yellow fls.
—*blaudus*. **LAMP-8.** 50¢
Prostrate; magenta fls.
—*conspicuus*. **LAMP-15.** 50¢
Rich magenta fls; nice; prostrate.
—*glaucus*. **LAMP-29.** 50¢
Yellow fls; good; 1 ft.
—*roseus*. **LAMP-40.** 50¢
Rose shades; dandy; 1 ft.
—*spectabilis*. **LAMP-43.** 50¢
Low growing; magenta fls.

We must make a 30¢ charge for Catalog.

We must make a 30¢ charge for Catalog.

LANTANA.

(lan-TAY-nuh)

Verbenaceae. Showy and easily grown; good pot plants or for bedding; sow seed indoors March 1st in a warm house; TP; space 1 ft. apart; C-12.

—**Bruni's Dwarf Hybrids.** **LANT-8B.** 30¢
This is the best strain and in a dwarf (nana) type. ¼ Oz. 90¢.

LANTERN PLANT, Chinese: see *Physalis Alkekengi*.

LAPEIROUSIA.

(lap-ay-ROO-zee-uh)

Iridaceae. Cormous plants native of S. Af. and with some protection are hardy in the (IV) zone.

—**cruenata.** **LAPE-4.** 30¢
Hardy in (IV); African cormous plant.
—**Sandersonii.** **LAPE-12.** 40¢
Hardy (IV).

LARIX.

(LAR-ix)

Larch. Pinaceae. Showy deciduous trees native of cold regions; best grown from seed.

—**decidua.** **LAR-2.** 35¢
European Larch. Keep seed dry; sow in the spring. Oz. 50¢; lb. \$3.50.
—**leptolepis.** **LAR-8.** 35¢
Japanese Larch. Best of the ornamental Larches; 90 ft; (IV). Oz. \$1.00.
—**occidentalis.** **LAR-12.** 30¢
Western Larch. (Montana) c. s. 75¢ oz;

LARKSPUR

Ranunculaceae. The annual *Delphiniums*. While biennial they are grown as annuals; sow seed in cool weather — they do not germinate good if the temperature is above 60 degrees F; expose to the light when in seed pans. In the South they should always be planted in the fall; especially good for cut-flowers.

GIANT IMPERIAL: Tall, upright, compact basal branching in habit and very popular for cutting; 4-5 ft.

—**Blue Bell.** **LARK-3B.** 20¢
A beautiful mid-blue color.
—**Blue Spire.** **LARK-3S.** 20¢
Deep Oxford-blue.
—**Carmine King.** **LARK-3C.** 20¢
Improved deep carmine-rose; holds color.
—**Dazzler.** **LARK-3D.** 20¢
A rich scarlet.
—**Exquisite Rose.** **LARK-3R.** 20¢
Fine rose-pink; deep.
—**Los Angeles.** **LARK-3L.** 20¢
Brilliant pink on salmon.
—**Miss California.** **LARK-3M.** 20¢
A deep rose on salmon.
—**White King.** **LARK-3W.** 20¢
Pure white.
—**Mixed.** **LARK-3X.** 15¢
Any of Above: Oz. 65¢; lb. \$5.00.

LATANIA.

(lat-TAY-nee-uh)

Palmaceae. Fan-palms hardy in the (X) zone; C-45.

—**borbonica:** see *Livistona chinensis*.
—**Commersonii.** **LATA-3.** 50¢
(*L. borbonica*, *Livistona chinensis*) Palm.
100 seeds \$3.00; 1,000. \$7.50. Delivery as new seeds arrive; order early.
—**Loddigesii.** **LATA-4.** 70¢
10 seeds \$2.40; 100 seeds \$10.00. Delivery as fresh seeds arrive.

We must make a 30¢ charge for Catalog.
PLEASE DO NOT USE COMMON NAMES

LATHYRUS.

(LATH-ee-rus)

Perennial Sweet Pea. Leguminosae. They require no special care; rather erect vines and do well on low supports or embankments; (IV); keep pods picked off for longer blooming period; for the popular Sweet Peas see under this name.

—**latifolius.** **LATH-16X.** 25¢
Perennial Pea. Vine to 9 ft; white, red and rose fls; these should be planted in Autumn; HP. Oz. \$2.00.
—**Rose.** **LATH-16P.** 25¢
—**Red.** **LATH-16R.** 25¢
—**White Pearl.** **LATH-16W.** 25¢
—**tuberosus.** **LATH-53.** 40¢
Cl or tr; 4 ft; rose fls; roots edible; HP.
—**niger.** **LATH-33.** 50¢
—**vernus.** **LATH-55.** 30¢
(Orobe) Spring Vetchling; 2 ft; HP.

LAURELIA.

Monimiaceae. Tall aromatic trees native of Chile and New Zealand; hardy in (X) zone.

—**novae zelandiae.** **LAUL-2.** 50¢
Tall forest tree but attractive shrub when young; moisture and shade; (X); N. Z.

LAURUS.

(LAW-rus)

Laurel, Sweet Bay. Lauraceae. In a rich peaty soil with plenty of moisture they can be grown in the (VIII) zone; they are pretty medium-sized trees.

—**camphore.** **CINN-2.** 30¢
(*Cinnamomum Camphora*) Sweet Bay; Laurel. (X); fresh seed best. d.b. Oz. 60¢; lb. \$3.00.
—**glandulifera:** see *Cinnamomum glanduliferum*.
—**nobilis.** **LAUR-5.** 25¢
Evergreen tr to 40 ft; the true Laurel of the florist; yellow fls; the lvs, picked any stage, are used fresh and dried in flavoring many dishes. c. s. Oz. 75¢; lb. \$2.00.

LAVENDULA

Lavender. Labiatae. Aromatic herbs that can be grown in (IV) zone with protection.

—**hybrids.** Mixed. **LAVA-4X.** 25¢
—**officialis.** **LAVA-7.** 30¢
Sub-sh to 3 ft; (also listed as *L. spica* and *L. vera*); (IV). Oz. \$1.00.
—**spica.** **LAVA-7S.** 25¢
Broad leaf; 3 ft; HP; purple-blue fls; much liked by birds; lvs don't fall in the winter; must be transplanted every 4-5 yrs.
—**Stoechas.** **LAVA-16.** 50¢
Sh to 3 ft; dark purple fls in dense spikes; fol. gray-tomentose; HHP.
—**vera.** **LAVA-7V.** 25¢
(True) HP; dwarf compact habit; purple-blue fls; RG; bees likes it; stands frost better than *L. spica*; transplant every 4-5 years; medicinal herb.
—**All Mixed.** **LAVA-X.** 25¢

LAVATERA.

(lav-at-TEER-uh)

Tree-Mallow. Malvaceae. Showy and very easily grown annuals. They are excellent for bedding or cutting; plant where they are to grow, in April or in mild climates, in Sept. Sow annuals direct to garden in Sept. or April; germ. 18 ways; space 12-24".

—**arborea.** **LAVT-3.** 25¢
Sh to 10 ft; pale purple-red fls; (IX); HB.
½ Oz. 50¢.
—**assurgentiflora.** **LAVT-5.** 25¢
Calif. Windbreak. Sh to 10 ft; rose-purple fls; (IX). Oz. 50¢.
—**cochemiriana.** **LAVT-6.** 40¢

- Pink fls, 1½" long; HP; Himalayas.
—thuringiaca. LAVT-14. 30¢
 Rose-pink, 2½ inches across; HP.
—trimestris v. Loveliness. LAVT-15L. 25¢
 One of the loveliest of all annuals, in a rich shade of rose; blooms over a long period; 5 ft; best to sow middle of April where they are to grow; C-1. Oz. 60¢.
—rosea. LAVT-15Z. 25¢
 Deep rose. Oz. 60¢; 4 oz. \$2.00.
—White. LAVT-15W. 25¢
—splendens. LAVT-15S. 25¢
 Rose fls. Oz. 60¢.
—Mixed. LAVT-15X. 20¢
 Oz. 50¢.
—All Mixed. LAVT-X. 20¢

LOXOGRAMME.

- immersa.**
—involuta.



LAYIA—TIDY TIPS

- LAYIA.** (LAY-ee-uh)
 Compositae. Early blooming annuals with yellow or white ray and disk fls in terminal heads; easy; best in a dry sunny place.
 Sow direct to garden as early as March; germination 17 days.
—elegans. LAYI-5. 30¢
 Tidy Tips. Early flowering; low growing; HA; daisy-like yellow fls tipped white; sow in April and in succession thru May and June; do not bury seeds too deep; July-Sept; space 1 ft.
LEDUM.

Ericaceae. Low ev. shs found in moist places and sphagnum bogs; moist sandy, peaty soil.

- palustre v. nipponicum.** LEDU-8N. 40¢
 Crystal Tea, Wild Rosemary.. 3 ft; (III). Oz. 80¢.

LEEK: see *Allium porrum*.

LEIOPHYLLUM.

(lye-oh-FILL-um)
 Ericaceae. Sand Myrtle. N. Am. low ev. shrubs with fls in terminal corymbs, followed by fruits; border or RG; in peaty or sandy

loam; sow seeds in cold frame, lime-free soil.

- buxifolium.** LEIO-1. 30¢
 Box Sand Myrtle. Very nice 1 ft sh; ev. gr. myriads of little white fls in spring.

LEMAIREOCEREUS.

Cactaceae. Tree or shrub-like; used in tropical regions for their edible fruit; not common; very attractive; rich soil with a gravelly sand.

- Dumortieri.** LEMA-20. 50¢
 Tree-like, to 50 ft; white fls, 2" long; Mex.
—griseus. LEMA-27. 50¢
 (eburneus) To 20 ft; pinkish fls, 3" long.
—Hollianus. LEMA-29. 50¢
 To 15 ft; white fls 4" long; Mexico.
—marginatus v. oaxacensis. LEMA-35A. 50¢
 Organ-pipe Cactus. To 30 ft; 6" diam; fls 2" long; Mexico.
—stillatus. LEMA-44. 50¢
 t6 red, bell-shaped fls, 1½" long; Mexico.
—Thurberi. LEMA-47. 50¢
 20 ft; 8" diam; fls light purple with white margin; Mexico.
—Treleasei. LEMA-49. 50¢
 To 20 ft; pinkish fls 2" long; Mexico.
—Weberi v. candelabrum. LEMA-52C. 40¢
 To 30 ft; Mexico.

LEONOTIS.

(lee-on-NOH-tiss)

Lion's Ear. Labiatae. Annuals and perennials or shrubs grown in the far S or in the GH in N, where they can be set out doors during the summer.

- dysiphylla.** LEON-3. 30¢
 Small leaves; orange-brown whorls; 7 ft; HHP.
—laxifolia. LEON-5. 30¢
 Bronze fls in whorle; 5 ft; HHP.
—Leonurus. LEON-6. 30¢
 Showy red-yellow or orange-red fls; 6 ft; seed sown in Jan. fls in fall; good for pot culture; start in Jan. for fall fls; can be grow in pots; TP.

LEPACHY: see *Ratibida*. Coneflower.

LEONTOPODIUM. (le-on-toh-POH-de-um)

Compositae. Low herbaceous tufted and woolly perennials; leaves basal; fls in small heads; C-23-24.

- alpinum.** LEOT-1. 30¢
 Edelweiss. 1 ft; white-woolly; high Alps.
 ½ oz. \$2.50.
—sibericum. LEOT-5. 40¢
 Edelweiss. Fine rockery or indoor pot plant; sandy soil; HP. ¼ Oz. \$2.00.
—soulei. LEOT-9. 50¢
 A dwarf Himalayan species; rare.
—tartaricum. LEOT-12. 50¢
 New; rare; very silvery and neat; found in Tatra Mts.

LEPACHYS.

(Ratibida) Compositae. Coneflower. It is grown for its flowers; some are good bedders

- pinnaia.** LEPA-9. 40¢
 Yellow ray fls; 5 ft; HP.

LEPIDUM.

Pepper Grass. Cruciferae. Used mainly as a salad grass. See Cress.

- sativum.** LEPI-4P. 25¢
 Garden Cress; Upland Cress. A valuable herb for its green lvs; valuable also in pastures and poultry yards where it can be sown broadcast. Oz. 50¢; lb. \$2.00.
—Broad Leaf. LEPI-4B. 25¢
 A larger leaf strain for table use. Oz. 60¢.
—Water Cress: see under *Nasturtium officinale*.

inale. A hardy Cress found by water.

LEPTOSPERMUM. (lep-toh-SPERM-um)

Tea Tree. Myrtaceae. Valuable for their wealth of flowers; grown out doors in S; (X). They make good GH subjects; C-23-24.

—hymenophylloideae. LEPP-3. 35¢
—flavescens. LEPP-3. 35¢

Tall shrub with fls $\frac{1}{2}$ " ac; Australia. LEPP-4. 30¢

—laevigatum. LEPP-4. 30¢

Coast Tea-Tree. 12-20 ft; gray lvs; white fls; good wind break; (IX); germination best at around 50° F. then at 85° alternat- ing or in year-old seed at 70°. Oz. \$3.00.

—periciflorum. LEPP-6. 50¢
(squarrosus, grandiflorum roseum) Val- uable fl-sh; this is one of the true Tea-trees of Australia (NSW); 5 ft; pink fls.

—rotundifolium. LEPP-7. 35¢
Tea Myrtle. 8 ft; hardy in South. Aust.

—sc pavum. LEPP-8. 40¢
White to pink fls, $\frac{1}{2}$ " ac; 6-8 ft; (IX); N. Z.

—grandiflorum. LEPP-8G. 25¢
Has large pink or nearly white fls.

—Martii. LEPP-8M. 40¢
Much like Keatlayii in appearance; more bronzy fol; fls large, deep rosy red; very attractive; 6 ft.

—Nichollsii. LEPP-8N. 40¢
Bronzy leaves; carmine fls; N. Z.

—Walkerii. LEPP-8W. 40¢
White to deep pink fls; hybrid; popular in N. Z.

—sphaerocarpus. LEPP-11. 50¢
—Mixed. LEPP-8X. 30¢

—All Mixed. LEPP-X. 25¢

LEPTOSIPHON: see Gillia.

LEPTOSYNE. (lep-toh-RYE-nee)

Compositae. California natives; by some listed with Coreopsis; best treated as a hardy annual up to IV zone; sow indoors in Mar. or April; grow on in pots till set out in late May.

—Golden Rosette. LEPS-1. 25¢
Double bright yellow fls; see also under Coreopsis; (C. Stillmanii); C-7. $\frac{1}{2}$ Oz. \$1.00.

—maritima: see Coreopsis.

—Stillmanii: see Coreopsis.

LESCHAULTIA.

Goodeniaceae. Aust. Heath-like plants and shrubs; hardy in X zone.

—bicolor. LESC-3. 50¢
Famed Australian blue flowered shrub; does well in poor sandy soil; intense blue fls; 2 ft.

LESPEDeza. (les-ped-DEEZ-uh)

Leguminosae. Ornamental plants and sub- shrub hardy in the North.. The Clovers of the mid-south belong to this genus.

—Ruegeri. LESP-4. 30¢
Purple to white fls in racemes; July-Sept; Japan. Oz. 90¢.

—bicolor. LESP-2. 50¢
10 ft. sh; purple fls; July-Oct; Japan.

Lb. \$1.75.

—striata. LESP-17. 50¢
Japanese Clover. HA; to 18"; forage crop in the South.

LEUCADENDRON. (lew-kad-DEN-dron)

Proteaceae. S. Af. trees and shrubs; hardy in (X) zone and grown in GH in N.

—abscondens. LEUD-3. 50¢
Yellow bracts; variable in height; S. Af.

We must make a 30¢ charge for Catalog.

LEUCAENA.

Leguminosae. Ornamental shrubs and trees for warm sections; the fruits are edible.

—glaucia. LENA-2. 40¢

—pulverulenta. LEUA-3. 30¢

—retuca. LEUA-5. 40¢

LEUCOTHOE. (lew-KOTH-oh-se)

Ericaceae. Best in a moist peaty, sandy soil; require some winter protection in the N. they are nice shrubs; follow culture direc- tions under Rhododendron in sowing seeds.

—Caesbaei. LEUK-3. 30¢
White racemes; 6 ft.

—Davisiae. LEUK-4. 30¢
Evergreen shrub; $3\frac{1}{2}$ ft.

LEUCOSPERMUM.

Proteaceae. S. Af. shs; they can be grown out doors in the S. Moist sandy, peaty soil.

—nutans. LEUS-9. 50¢
Brick-red pin cushions. 100 Seed \$5.00.

—reflexum. LEUS-18. 50¢
Striking orange-red heads; 10 ft. 100-\$6.50.

LEVISTICUM. (lev-VIST-ik-um)

Lovage. Umbelliferae. Herb for its ara- matic fruits used in candy, etc; very ornam- ental.

—officinale. LEVI-1. 25¢
Lovage. Grows to 6 ft; fls greenish yel- low; germination is seldom real good; sow early; HP. Oz. 90¢

LEWISIA. (lew-ISS-ee-uh)

Portulacaceae. Natives of N.W. Amer; the flower is very pretty; does best in a deep loose gritty soil, 1 part loam, 2 of peat moss 3 parts very coarse sand; moist in spring bu dry during the summer; seed can be frozer before planting.

—Howellii. LEW-12. 50¢
Deep rose fls; 6"; Ore; HP.

NOTE: We should be able to offer more species but the delivery of seed is very un- certain. For this reason species offered last year will be skipped in this issue.

LEYCESTERIA.

Caprifoliaceae. Himalayan deciduous shs. —glancophylla. LEYC-10. 50¢

LHOTZKYA.

Australian shrubs. —ericoides. LHOT-12. 50¢

—violacea. LHOT-24. 50¢

LIATRIS

Blazing Stars; Gay Feather. Compositae. Perennials, very pretty all summer and into the autumn, especially when massed in the border; fls are in spikes or racemes; easily grown from seed which is better after a cold spell; C-24.

—callilepsia. LIAT-2. 25¢
A very striking flower in stiff fluffy spikes of intense lilac color; 2 ft. HP.

—cylindracea. LIAT-4. 25¢
To $1\frac{1}{2}$ ft; fls in loose spikes; (IV); HP.

—glabrata. LIAT-7. 35¢
(Squarrose v. glabrata) Found in sandy soils in Texas.

—ligulistylis. LIAT-9. 40¢
Purple fl-heads in corymb-like racemes; 18"; (III); HP.

—praecox. LIAT-13. 20¢
Collected in Austria.

- punctata.** **LIAT-14. 30¢**
Purple fls in dense heads; 18"; Nebr; HP.
—**pycnostachys.** **LIAT-15. 30¢**
Cat-tail Gayfeathers Purple fls in dense
spikes; sun; 3-5 ft. **PLANTS: 75¢; 3-\$1.60.**
—**alba.** **LIAT-15A. 35¢**
—**scariosa.** **LIAT-16. 25¢**
Purple fls; tipped purple; 6 ft; HP; C-23.
a pretty species. $\frac{1}{2}$ Oz. \$1.25.
PLANTS: 45¢ each; 3 for \$1.30.
—**alba.** **LIAT-16A. 40¢**
White flowered variety.
—**spicata.** **LIAT-17. 25¢**
Dense spikes of purple fls; 6 ft; HP; C-23.
Spiked Gayflower; $\frac{1}{2}$ Oz. 85¢. **PLANTS:**
50¢ each; 3 for \$1.30.
—**montana.** **LIAT-17M. 35¢**
More dwarf growing; stouter.
—**Mixed Species.** **LIAT-X. 20¢**

- LIBERTIA.** (lib-BERT-ee-uh)
Iridaceae. Australian and N.Z. natives;
hardy in the S; seldom offered.
—**caeruleascens.** **LIBE-1. 30¢**
Hardy in the South; blue fls; N.Z. per.
—**grandiflora.** **LIBE-3. 40¢**
White fls; small capsules; brown or yellow
cord; decorative.
—**ixioides.** **LIBE-5. 35¢**
A N. Z. woodland flower; 2 ft; white, 1"
ac; lvs 1 ft long; like miniature flax; gold lv
—**Species. (?) and Mixed.** **LIBE-X. 25¢**

- LIBOCEDRUS.** (lye-boh-SEED-rus)
Incense-Cedar. Cupressaceae. Evergreen
trees related to the Thuja; attractive but not
hardy very far North.
—**decurrens.** **LIBO-4. 35¢**
Incense Cedar. (IV); best sown in the fall.
stratify in moist sand for 1-2 months at
40 F, is good; cover seed $\frac{1}{4}$ - $\frac{1}{2}$ inch. **Oz.**
75¢; lb. \$3.00.

- LIGHTFOOTIA.**
—**glomerata.** **LIGH-1. 25¢**

- LIGULARIA.** (lig-u-LAY-re-ah)
Compositae. Herbaceous perennials with
broad basal leaves attractively marked and
with many yellow ray-fl heads in racemes or
corymbs on 5 ft. stems; easy; border.
—**clivorum, Orange Queen.** **LIGU-1Q. 25¢**
Heads 4" ac and a pretty orange; 5 ft;
HP; C-23.

- LIGISTRUM.** (lig-GUST-rum)
Privet. Oleaceae. Well known shs used
much as hedges; some species are very showy
shrubs; sow seed in fall or stratify for spring
—**thota.** **LIG-10. 40¢**
To 6 ft; Japan.
—**japonicum.** **LIG-14. 25¢**
c. s. Oz. 50¢; lb. \$1.50.
—**rotundifolium.** **LIG-14R. 25¢**
(coriaceum) d.b. Oz. 50¢; lb. \$2.00.
—**variegatis.** **LIG-14V. 25¢**
d.b. Oz. 50¢; lb. \$2.00.
—**ovalifolium.** **LIG-21. 25¢**
d.b. Oz. 50¢; lb. \$1.60. (Calif. Privet)
—**lucidum.** **LIG-17. 35¢**
Glossy Privet. Ev to 25 ft; fls in 10" pan-
icles in Aug-Sept; Korea.
—**Quihoui.** **LIG-22. 35¢**
Fls in 8" panicles; Aug-Sept; China; 6
ft; (VIII); shrub.
—**sinense.** **LIG-25. 25¢**
d.b. Oz. 50¢; lb. \$1.60.
—**vulgare.** **LIG-28. 30¢**
(vul-GAY-rah) Common Privet. c.s. Oz.
50¢; lb. \$3.00.

LILCOXIA.

- albiflora.**
—**Poselgeri.**

- LILC-1. 50¢**
LILC-15. 50¢

LILIUM

Lily. Liliaceae. Growing Lilies from seed
has become very popular. If type of germi-
nation is followed, they are easily grown,
besides their hybridizing is of special inter-
est and rewarding. We would like to hear
from those growing species to any extent

(A) Sow seeds of these species, in March
or April, out doors, or earlier indoors; germi-
nate in 3-5 weeks; transplant to nursery
row. Can also be treated as in (B).

(B) Start in frame or greenhouse in early
spring or out doors in the South; germinate
in 3-6 weeks; carry seedlings over in frame
or cool house the first winter, transplanting
them out in the spring.

(C) Plant out door April-June in a well-
made seed bed; germinates in 2-5 months
with no top growth showing the first season;
transplant the 2nd year; epecolyl dormancy.

(D) Plant out doors in late fall, Nov-Dec,
in well-prepared seed bed; germination and
top-growth the 2nd spring; transplant the
3rd or 4th year, according to growth.

(E) Usually hybrids and variable as to
treatment; any special notes are mentioned in
their description.

- amabile.** **LILY-2. 25¢**
Turk's Cap Red with dark spots; 3 ft; A.
—**luteum.** **LILY-2L. 30¢**
A yellow form; A.
—**auratum.** **LILY-4. 30¢**
Gold Banded. Bowl-shape fls; 4-6 ft; C.
—**A. x Red Auratum.** **LILY-4R. 50¢**
A highly compatible cross and produces
type, pink and reds; both pinks and reds
are produced in true form; seed produced
by Harrisons in New Zealand and is very
choice.
—**Melford Hybrids.** **LILY-4M. 50¢**
This is a new strain from New Zealand.
they are recommended as outstanding
hybrids. $\frac{1}{8}$ Oz. \$2.00.
—**A. x rubro-vittatum.** **LILY-4V. 50¢**
Another of Harrison's valuable crosses;
New Zealand Lilies are tops any where
in the world.
—**platyphyllum.** **LILY-4P. 50¢**
White fls spotted crimson.
—**Healy Strain.** **LILY-4H. 75¢**
Red, pink and lavender types that pro-
duce extra fine colored Auratums; New
Zealand.
—**Aurelian Hybrids.** **LILY-47A. 30¢**
EA.
—**Backhouse Hybrids.** **LILY-47B. 30¢**
E.
—**bulbiferum.** **LILY-10. 50¢**
Orange-red, spotted with purple-black
with yellow centers; 4 ft.
—**candense flavum.** **LILY-13F. 30¢**
Lemon-yellow; 5 ft; C.
—**rubrum.** **LILY-13R. 40¢**
Orange-red flowers; C.
—**centifolium: seeleucanthum v. chloraster.**
—**cernuum.** **LILY-20. 30¢**
Lilac spotted purple; nodding; 2 ft; A.
—**concolor.** **LILY-24. 30¢**
Star L. Vermilion; erect; 4 ft; A.
—**pulchellum.** **LILY-24P..50¢**
Chinese Star Lily. Resembles Concolor
but solitary and more oval bulb; wider and

deeper green lvs.

- cordatum.** LILY-25. 40¢
White striped purple; erect; 4 ft; D.
- Crow's Hybrids.** LILY-47W. 25¢
(Friemann Strain) Trumpet; huge cream; 5-6 ft; A.
- dauricum.** LILY-32. 30¢
Candlestick L. Orange-red, spotted; 3 ft; Siberia; A.
- Davidii.** LILY-33. 30¢
A refined Tiger Lily; 6 ft; A.
- Willmotiae.** LILY-33W. 30¢
Orange-red, dotted black; recurved fls; 3-5 ft; A.
- formosanum.** LILY-39. 30¢
Late trumpet; white; 8 ft; A.
- Formo-longi.** LILY-47FL. 50¢
(NEW) Cross between giganteum and formosanum; white trumpets of great substance; highly scented and blooms in 6-8 months from seed.
- giganteum.** LILY-40. 40¢
Late; huge white fls; 10 ft; D. ½ Oz. \$4.00.
- himalaicum.** LILY-40H. 35¢
White; huge woodland Lily; 10 ft; D. ¼ Oz. \$8.00.
- Henryi.** LILY-45. 30¢
Golden Speciosum. Recurved; soft gold en orange; 6-8 ft; A.
- hollandicum.** LILY-46. 35¢
Up-facing, bowl type; many forms; 2-3 ft; EA.
- Red Bird.** LILY-47RB. 25¢
- japonicum.** LILY-50. 40¢
Trumpet; pink; 2-4 ft; C.
- Kelloggii.** LILY-51. 40¢
Pink, spotted with purplish black; erect; 4 ft; Calif; C.
- Leichtinii Maximowiczii Wadai.**
Early Tiger type; recurved; 6 ft; A.
- leucanthum v. chloraster.** LILY-53C. 50¢
(Centifolium) Chinese White L. 6 ft; fls white yellow inside; China.
- Lillian Cummings.** LILY-47LC. 25¢
Bright orange-red; 4-5 ft; EA.
- longiflorum.** LILY-55. 30¢
New Japanese form; choice GH lily.
- insulare.** LILY-55L. 50¢
An improved strain grown in Japan.
- Lyla McCann.** LILY-47LM. 25¢
Medium Recurved; golden orange; EA.
- longiflorum, White Queen.** LILY-55Q. 30¢
For GH growing sow seed Jan. 1st and hold over summer outside in cloth house then into GH in the fall, makes good cut fls; grow in pots or on bench.
- macrophyllum:** see *Notholirion m.*
- Markham Hybrids.** LILY-47B. 30¢
Martagon album x Hansonii; yellow; 4 ft; E. ½ Oz. \$1.20.
- Martagon.** LILY-59. 25¢
Turk's Cap L. Rose or dark purple; 6 ft; C.
- Maxwell.** LILY-47MX. 25¢
Bright orange, spotted red; recurved; 5 ft; A.
- medeoloides.** LILY-62. 40¢
Wheel L. Apricot to scarlet; recurved; 3 ft; A.
- michiganense.** LILY-65. 50¢
Recurved segments mostly red like L. canadensis.
- album.** LILY-96A. 30¢
- Palmer's Hybrids.** LILY-47M. 30¢
Named varieties mixed; A.
- Preston Hybrids.** LILY-47P. 30¢
Named varieties; recurved; 3-5 ft; A.
- regale.** LILY-95. 35¢
Royal L. Lilac or purple outside, white within yellow base; horizontal; 5 ft. Oz. \$2.50; lb. \$18.00.
- philippenense.** LILY-83. 50¢

White tinged green; 18 inches.

- rubellum.** LILY-99. 50¢
Small rose-pink; funnel-shaped; 1-2 ft; C.
- Sargentiae.** LILY-105. 30¢
Rose-purple outside, white inside; 6 ft; A.
- Hybrid.** LILY-105C. 30¢
S. x centifolium; A.
- skkimensis.** LILY-108. 25¢
- speciosum.** LILY-110. 50¢
Showy Japanese L. White, suffused rose; E.
- Kraetzeri.** LILY-110K. 30¢
- magnificum Hybrids.** LILY-110M. 40¢
- punctatum.** LILY-110P. 30¢
- superbum.** LILY-113. 50¢
American Turks-Cap. 8 ft; orange-scarlet spotted purplish brown to 4" across.
- suichuense.** LILY-114. 50¢
- tigrinum.** LILY-119. 50¢
Tiger L. Japan grown seed; orange or salmon-red fls; E.
- Tsingtanense.** LILY-120. 50¢
Small upright; brown or mahogany fls; 1-3 ft; A.
- Wallichianum.** LILY-140. 40¢
- Mixed (A) germination.** LILY-AK. 35¢
- Mixed (B) germination.** LILY-BX. 35¢

LILY TURF: see *Liriope spicata*. A pretty rockery plant.

LIMNANTHES. (lim-NANTH-eez)

Meadow Foam. Limnnanthaceae. Small annuals of easy culture and nice for the flower border; seed can be sown in Sept. or early spring; likes moist soils.

- Douglasii.** LIMN-1. 30¢
Meadow Foam. Flowers very quickly after sowing; 1 ft; coverer with showy fls, 1" ac; HA; space 5 in. apart; C-1.

LIMONIUM

Statice; Sea-Lavender. Plumbaginaceae. A highly prized flower both for the border and for commercial growing; many in this genus were formerly under Statice. They make excellent everlasting flowers; sow the



LIMONIUM BELLIDIFOLIA

annuals early in the spring and the perennials up to August. (lim-ON-ee-um).

Cut all Limoniums with long stems for drying; germ. 8 ways at 60-65 F; can be started as early as Feb. indoors.

L. SINUATUM: Biennials and perennials

best grown as a HA; lvs form low rosettes at base of the stiff angular branching flower stalk; useful for dried fls, cutting or in the border; C-21.

These are excellent for drying; HHA;

space 1-1½ ft; Aug-Oct; 1-2 ft high.



LIMONIUM SINUATUM

- Kampf's Blue. LIMO-32K. 25¢
An improved blue for market.
 - Markei Rose. LIMO-32Z. 25¢
 - Market Grower's Blue. LIMO-32G. 25¢
A fine deep blue selection.
 - Marktkonigen. LIMO-32M. 25¢
A new German strain in a perfect blue.
 - rosa superba. LIMO-32RS. 25¢
True; best pink.
 - New Ari Shades. LIMO-32AS. 25¢
New strain for 1956 season.
 - True Blue. LIMO-32C. 20¢
A California grown strain.
 - Above Mixed. LIMO-32X. 20¢
- PRICE: All above Oz. 45¢; lb. \$2.75.

OTHER SPECIES:

- bellidifolia. LIMO-2. 25¢
Grand in late summer; sprays of lavender
fls; 9"; HP.
- Bonduellii. LIMO-4. 25¢
Fine yellow flowered species; Aug-Oct;
18" space 1-1½ ft; HA or HB.



LIMONIUM PERESII

- Caspia. LIMO-6. 30¢
Lilac fls in large heads of bloom. Oz. 90¢.
- cosyrenes. LIMO-6. 50¢
A miniature edition for scree; 3 inches.
- dumosum. LIMO-7. 25¢
Giant heads of silvery gray fls; ½ Oz.
\$1.00. Space 2 ft.
- Gmelinii. LIMO-12. 25¢
Blue fls; 2 ft; Siberia; HP.
- Hybrids. LIMO-14N. 20¢
Interesting forms.
- latifolium. LIMO-15. 25¢
Immense lavender-purple heads; dry loca-
tions; 2 ft; HP; space 2-3 ft; Oz. \$1.70.

- Perezii. LIMO-24. 25¢
Sub-shrub; 3 ft; purplish blue; HHP.
Comes first year from seed. ½ Oz. 90¢.
- Suworowii. LIMO-36. 25¢
Very pretty and unique species with long
tail-like spikes of densely-clustered rose-
pink fls; July-Oct; 18"; space 1 ft; HA. Try
them in GH, excellent for filler work; sow
mid-Aug. for Feb. fls; 50 degrees F. Oz.
\$1.50.
- White. LIMO-37W. 25¢
- tataricum. LIMO-38. 25¢
(Goniolimon) Usually listed as Statice;
1 ft; white; HP. Oz. 80¢; 4 oz. \$3.00.
- Mixed Limoniums. LIMO-X. 20¢

LINARIA

Toad Flax. Scrophulariaceae. Annuals
and perennials of easy culture; fls in racemes
or spikes, in many colors; they are sometimes
called Baby Snapdragons; sow from Aug.
to Feb; best in full sun; C-1; (lin-AR-ee-ah).

- alpina. LINA-1. 50¢
Violet fls, blotched orange; 6"; HP. 1/16
Oz. \$2.00.
- austriacum. LINA-7. 50¢
- macedonia, Nymph. LINA-8. 30¢
Beautiful creamy white fls; 3 ft; HP.
½ Oz. \$1.25.
- maroccana Golden Gem. LINA-22G. 25¢
Nice HA; 18"; golden yellow fls.
- Fairy Bouquet. LINA-22F. 25¢
Clear rosy pink; 18"; HA.
- Diadem. LINA-22D. 25¢
Large fls; compact growth.
- Fairy Bride. LINA-22B. 25¢
Dwarf; in new colors.
- Excelsior Hybrids. LINA-22E. 25¢
In pink to dark blue; 18"; HA.
- Northern Lights. LINA-22N. 25¢
New colors, mixed. Oz. 75¢.
- organifoli: see Chaenorrhinum.
- purpurea, Cayon J. West. LINA-30W. 35¢
A beautiful English variety having pink
spikes; 18"; HP.
- rediviva. LUNA-31. 50¢
- reticulata aureo-purpurea. LINA-32A. 25¢
Purplenet Toad-flax. Deep orange; 12";
HA.
- Northern Lights. LINA-32N. 30¢
New colors mixed. Oz. 75¢.
- ½ Oz. \$1.25.
- villosa. LINA-12. 25¢
Beautiful ever-blooming, non-rampant;
rare; gray leaves; lavender fls.
- Mixed Linarias. LINA-X. 20¢

LINDERA

(lin-DEER-uh)
Lauraceae. Aromatic trees and shrubs;
formerly under Benzoin; best to sow seed
soon as ripe; resents transplanting.

- Benzoin. LIND-2. 25¢
Spice Bush. Deciduous shrub to 15 ft;
fls before leaves, greenish yellow; fruits
scarlet; moist places; Me-Fla; (IV).
- obtusifolia. LIND-9. 35¢
Korean decid sh or tr to 30 ft; yellow fls;
black fruits. Oz. 80¢.
- praecox. LIND-11. 40¢
Decid. sh or tr to 30 ft; Japan. Oz. 90¢
- triloba. LIND-14. 50¢
Decid. sh or tr too 30 ft; yellow fls; Korea.
Oz. 90¢.
- umbellata. LIND-18. 35¢
Sh to 15 ft; yellow fls; black fr. Oz. 80¢.

LINDHEIMERA

Compositae. S. W. American annuals with
heads of both disk and ray flowers; they are
pretty.

- texana. LINH-3. 25¢

Two ft. annual; golden yellow rays, 2" ac.

LINDMANNIA.

Bromeliaceae.

—penduliflora.

LINN-30. 50¢

LINUM

Flax. Linaceae. Annuals and perennials and shrubs with blue, white, yellow and red flowers and fine in the border; full sun; sow annuals direct to soil in early spring; easy; (LY-num); germinates in 17 days.

—africanum. LINM-1. 35¢

Small yellow fls; shrubby; per; (X).

—flavum. LINM-14. 20¢

Golden yellow fls; 1 ft; HHP; C-23-24.

—compactum. LINM-14C. 25¢

Compact form; fine RG; HHP. ⅓ Oz. 80¢.

—grandiflorum. LINM-16. 25¢

Scarlet Flax. Red to bluish purple

fls, 1½" ac; 2 ft; HA; space 9". Oz. 90¢.

—coeruleum. LINM-16C. 20¢

Very showy bluish purple; HA.

—Heavenly Blue. LINM-16H. 25¢

An improved variety in pure sky-blue.

¼ Oz. 50¢.

—roseum. LINM-16R. 25¢

Large rose-pink fls; HA.

—Blue. LINM-16B. 25¢

A very popular cut-flower; HA.

—Venitian Parade. LINM-16T. 35¢

A new tetra Linum from France.

—Jilicum. LINM-18. 25¢

More robust than L. perenne; 18"; HP.

—Lewisii. LINM-19. 25¢

½ Oz. 60¢.

—monogynum. LINM-20. 30¢

White fls 1" ac; 2 ft; HP; N. Z.

—nabonnense. LINM-23. 25¢

Large steel-blue fls; 2 ft; HP.

—Heavenly Blue. LINM-23H. 35¢

An English variety in a light blue color.

—perenne. LINM-26. 20¢

Deep blue fls; very nice; HP. Oz. 50¢.

—perenne, White. LINM-26W. 30¢

—Blue. LINM-26B. 30¢

—salsoloides. LINM-28. 50¢

Forms close mats 2 ft in diam; woody

stems and needle-like lvs covered with

white fls of silky texture.

—usitatissimum. LINM-39. 25¢

Common Flax. 2 ft; attractive pale blue

fls; June-Aug; space 1 ft; HA.

—Linum Mixed. LINM-X. 20¢

in May. Seed best stratified and sown in the spring and as they do not transplant readily better results will be had by growing them from seeds sown in coffee cans.

—Tulipifera. LIRO-3. 30¢

Lily Tree. Sow as soon as ripe in some

leaf mould; germination never real good.

Oz. 90¢; lb. \$3.50.

LIRIOPE. (lihr-RYE-oh-pee)

Lily Turf. Liliaceae. Asian evergreen

it makes a nice ground cover either sun or

perennials with attractive grass-like foliage;

shade; hardy up into zone (IV).

—spicata. LIRI-4. 30¢

Lily Turf. Blue spikes followed by black

berries; RG or edging; 10"; HP. Oz. \$2.00.

LIRIODENDRON. (lihr-ee-oh-DEN-dron)

Tulip Tree. Magnoliaceae. Pretty flow-

ering tree hardy up to (IV) altho we have

2 rather old trees in our yard near Lansing,

Michigan; they are rare this far north; the

flower is like the Tulip and is in bloom here

LITHOCARPUS.

Fagaceae. Ev'gr. Oak-leaf trs; they are

hardy only in the South.

—densiflora. LITC-10. 40¢

Tanbark Oak. (Quercus d) To 75 ft; Ore.

LITHOSPERMUM. (lith-oh-SPUR-mum)

Gromwell. Boraginaceae. Annuals, peren-

nials and sub-shrubs with white, yellow, blue

and violet flowers in racemes or spikes; they

are showy in the border or rockery.

—officinale. LITO-23. 40¢

Yellowish white fls; to 4 ft; HP.

—prostratum.....I would like to know of

a source for seed of this species.

—purpureo-caeruleum. LITO-29. 50¢

Rich blue fls, ½" ac; nice RG; stems

decumbent; HP.

LITTONIA.

(lit-TOH-nee-ah)

Liliaceae. Climbing or erect plants with bell-shaped orange or yellow flowers and tuberos roots; easy to grow in a sunny window; give rest in early winter; related to Gloriosa.

—modesta.

LITT-1. 30¢

Bright orange bells, 1" ac; good summer house plant.

—Keiti.

LITT-1K. 50¢

LIVISTONA.

(liv-ist-TOH-nuh)

Palmaceae. Also known as Corypha. in the trade. Tropical Palm.

—australis.

LIVI-1. 75¢

Palm. 100 seeds \$5.00; 1,000, \$15.00. 35 seeds to the ounce.

—chinensis.

LIVI-3. 75¢

Chinese Fan Palm. 20-30 ft; very easy. (Latania borbonica).

—rotundifolia.

LIVI-9. 90¢

(Corypha rot.) 100 seeds \$5.00; 1,000, \$30.00. Seed must be ordered early.

LOBELIA

Lobeliaceae. Annuals and perennials generally in blue or red flowers; for garden growing they are divided into 2 classes — the annuals being the most popular and are grown much in GH both for pot plants and for setting out doors in beds or edging; they are tender; demands rich moist soil; full sun;

The hardy annuals should be sown in the open where they are to grow; half hardy sorts best started indoors; germ. 15 days at 60-65 degrees F.

ar; compact growth. 1/2 Oz. 70¢.

L. ERINUS: Edging Lobelia. Annual, 4-12 inches high; partially trailing, with flowers in blue shades with white throats; plants from seed are stronger and more robust than from cuttings; comes true; for early plants start indoors in March; C-3.

—Bedding Queen.

LOB-1BQ. 25¢

Very dwarf dark blue with white eye. 1/2 Oz. \$1.00.

—Blue Gown.

LOB-1BG. 25¢

Dwarf compact; clear sky-blue. 1/2 Oz. \$1.00.

—Blue Stone.

LOB-1BS. 25¢

Rich clear blue; dwarf, compact. 1/2 oz. 90¢.

—Crystal Palace.

LOB-1CP. 25¢

True blue; dark bronze-green fol; popular. 1/2 Oz. \$1.00.

—Cambridge Blue.

LOB-1CB. 25¢

Clear dark blue; popular. 1/2 Oz. 90¢.

—Dorothea.

LOB-1D. 25¢

Compact; violet color; pretty.

—Emperor William.

LOB-1W. 25¢

Extra dwarf; for edging; gentian blue 1/2 oz. 90¢.

—Mrs. Clibran.

LOB-1C. 25¢

Extra dwarf; dark blue, large white eye.

—compacta.

LOB-1CC. 25¢

A dwarf compact form of above. 1/4 Oz. \$1.50.

—Prima Donna.

LOB-1PD. 25¢

Rich velvety maroon or deep carmine-red.

—White Lady.

LOB-1WL. 25¢

—Blend of Above Varieties.

LOB-1X. 25¢

L. ERINUS PENDULA: Pendulous type especially used in baskets and vases and window boxes.

—Hamburgia.

LOB-2H. 25¢

Pale blue with attractive white eye.

—Snow Queen.

LOB-2SQ. 25¢

—Sapphire.

LOB-2S. 25¢

Deep blue with showy white eye.

OTHER SPECIES:

—cardinalis.

LOB-6. 25¢

Red Lobelia. Striking; blaze of red; 6 ft; dark lvs; always striking when seen blazing, almost head-high, in colonies along creeks and little branches of the Blue Ridge; C-23. 1/2 Oz. \$1.50.

—Queen Victoria.

LOB-6V. 25¢

Dark red foliage; bright red fls; showy; 4-5 ft; HP.

—White.

LOB-6A. 40¢

This is a white sport of above.

—Hybrida.

LOB-6H. 25¢

Dark leaves; scarlet, crimson and purple fls.

—dryesdensis.

LOB-7. 30¢

A more compact blue hybrid of L. siphillica; more floriferous; 2 ft. 1/2 oz. \$4.00.

—inflata.

LOB-17. 25¢

Indian Tobacco. Light blue fls; 3 ft; HHA; must have light to germinate.

HHA; seedlings must be grown under and in full light; produces the drug Lobelin.

Dark leaves; enormous spikes of scarlet fls; 3 ft; TP. 1/32 Oz. \$4.00.

—siphillica.

LOB-29. 25¢

Deep blue fls, 1" long; 3 ft; Me-La; (IV); HP.

LOBIVIA.

See list under Cactus.

LOBULARIA maritima: see Alyssum.

LOCUST: see Robinia.

LOISELEURIA.

Alpine Azalia. Ericaceae. Ev. sub-shrub.

—procumbens.

LOIS-3. 40¢

Excellent alpine-rock plant of polar regions; very small rose or white fls. 1/4 Oz. 95¢

LOMATIUM.

(loh-MAY-shee-um)

Umbelliferae. Short-stemmed. perennials with small white, yellow or purple fls in umbels followed by fruits; W. N. Amer. natives; for the wild garden.

—macrocarpum.

LOMT-6. 30¢

—utriculata.

LOMT-11. 30¢

Spring Gold. 1 ft; B. C.-Calif; HP.

LONAS.

(LOH-nass)

Compositae. An interesting ornamental branching, annual; native of Medit. region; they can be dried; C-7.

—annua.

LONA-1. 25¢

(inodora) Golden Ageratum. 1 ft; July-Aug; HA; space 12". Oz. \$1.00.

LONICERA.

(lon-NISS-er-uh)

Honeysuckle. Caprifoliaceae. Popular erect or climbing shrubs, hardy in the North; sow seed in the fall or stratify for spring.

—alpigna.

LONI-3. 30¢

c.s. Oz. 80¢; lb. \$7.00.

—Caprifolium.

LONI-15. 35¢

Twining vine to 20 ft; white or purple fls in whorles; fragrant. c.s. Oz. 70¢; lb. \$8.00.

—etrusca.

LONI-23. 30¢

c.s. Oz. 80¢; lb. \$6.75.

—gracilipes v. genula.

LONI-33G. 40¢

6 ft sh; April-May; scarlet fr; Japan. Oz. \$1.25.

—glabra.

LONI-33L. 40¢

—japonica.

LONI-42. 30¢

—Evel with white or purplish fls; June-Sept. Japan. Oz. 90¢.

—**Halliana.** **LONI-42H. PLANTS**
Hall's Honeysuckle. Strong growing decid. vine with frag. yellow white fls; trellis or ground cover. **PLANTS: 60¢ each;**
3-\$1.35; 10-\$8.00.

—**Maackii.** **LONI-55. 35¢**
White fls; June; 15 ft. Oz. 75¢.

—**Morrowii.** **LONI-66. 40¢**
8 ft sh; fls white changing to yellow; May June; red fruit;; Japan. Oz. 90¢; lb. \$10.50

—**tatarica.** **LONI-95. 25¢**
c. s. Oz. 50¢; lb. \$4.50.

—**xylosteum.** **LONI-105. 30¢**
c.s. Oz. 60¢; lb. \$4.50.

LOPHIOLA.

Haemodoraceae. One native HP found in wet pine barrens and bogs; N. J. south.

—**americana.** **LOPI-1. 40¢**
(*L. aurea*) Golden Crest. Small yellowish fls in dense white woolly panicles; HP.

LOTUS.

Leguminosae. Grown for ornament and the edible pods.

—**tetragolobus.** **LOTU-26. 50¢**
Winged Pea. Trailing annual; pods edible in young state; 1" long; best started indoors; set 15" apart; sun; stake for best results.

LOVAGE, Black: see *Smyrniolum olusatrum*.
—officinale: see *Levisteum*.

LUCULIA.

(lew-KEW-lee-uh)

Rubiaceae. Shrubs with salverform 5-lobed fls in terminal corymbs; native of India and China; grown in the greenhouse and planted out during the summer.

—**Bhutan Species.** **LUCU-10. 50¢**

A new species native of Bhutan with large pure white fls in immense panicles; broad ornamental lvs; rare.

—**gratissima, Rose.** **LUCU-1Z. 30¢**
To 16 ft; rose fls, ½" ac; GH. ¼ Oz. \$4.00.
Fresh seed about April.

—**White.** **LUCU-1W. 40¢**

—**Mixed.** **LUCU-1X. 25¢**

—**setensis.** **LUCU-10. \$1.00**

NEW. Rare species from Bhutan, N. India. Pure white fragrant fls, tubes 3" long, individual fls 1" as. in large panicles, 9-12" long and 5-6" ac; hardier than *L. gratissima*; 8 ft; (IX?); partial shade.

LUFFA.

(LUFF-uh)

Cucurbitaceae. Tender vines of tropical regions grown as TA in the North. Some of the Gourds belong here.

—**acutangula.** **LUFF-1. 25¢**

Fruits club-shaped; TA vine like Gourds.

—**cylindrica.** **LUFF-3. 25¢**

Green Snake. Fruits 2 ft. long; TA vine.

—**macrocarpa.** **LUFF-3M. 25¢**

Easily grown climber; attractive yellow fls followed by 1-2 ft cucumber-like fruits; when ripe and dried in the Fall it makes the bathroom loofah; rich soil in hot sunny spot; best started indoors in March; 3-4 seed per pot; set out in late May.

—**Mixed.** **LUFF-X. 20¢**

LUNARIA.

(loo-NAY-ree-uh)

Satin-Flower; Honesty; Moonwort. Cruciferae. Annuals and perennials grown mainly for the pretty dried fls; sow the annuals early, they are often biennial; DW: C-23.

—**annua.** **LUNA-1X. 20¢**

HA or HB; 18"; white, red and purple.

—**White.** **LUNA-1W. 2¢5¢**

—**Crimson.** **LUNA-C. 25¢**

Oz. 50¢.

—**Munstead Purple.** **LUNA-1M. 25¢**

Oz. 50¢.

—**Violet.** **LUNA-1L. 25¢**

—**Variegated.** **LUNA-1V. 25¢**

The leaves are variegated white.

—**rediviva.** **LUNA-4. 50¢**

Peennial Honesty; HP.

LUPINUS

Lupine Leguminosae. Annual and perennial; fls in great profusion on long stems; they are pretty and make a good display in the border; well drained soil, thriving even in rather poor soil; sow where they are to grow. do well in acid soil.

—**Hartwegii.** **LUP-25. 20¢**

Best annual species; July-Sept; HA; C-1. 1½-3 ft; space 12 inches apart.

—**Blue.** **LUP-25B. 20¢**

Light shade of blue.

—**Celestial Blue.** **LUP-25C. 25¢**

—**Giant King.** **LUP-25G. 20¢**

A pretty blue.

—**—** **LUP-25Z. 20¢**

—**White.** **LUP-25W. 25¢**

—**Pixie Delight.** **LUP-40PX. 25¢**

Brilliant color mixture; dwarf plants.

Oz. 75¢.

—**Lyailli.** **LUP-34. 25¢**

Sun; very light soil best; ½" high; silvery foliage and blue fls; RG; 4 ft; HP.

—**mutabil's.** **LUP-39. 25¢**

—**Cru'keharksii.** **LUP-39C. 25¢**

Dark blue changing to white.

—**marus.** **LUP-40. 25¢**

Blue with purple dotted spots; fragrant; May-June; 15"; HA; space 2 ft.

—**apricus.** **LUP-40A. 30¢**

Silvery foliage; very effective; blue and white fls.

—**Pixie Delight.** **LUP-40D. 25¢**

A new brilliant blend of colors; dwarf.

Oz. 75¢.

L. POLYPHYLLUS: The tall perennial Lupine; hardy in the North. Winged flower; many beautiful colors; LW; C-23 or 24.

RUSSELL STRAIN

This beautiful perennial strain originated by George Russell, will produce a blaze of rich and exotic colors, a real show in any border.

Seed can be planted any time from Feb. to late July; sow seed 6 in. deep (important); plant seed 1/4" deep; transplant after first pair of true lvs develop; soil must be lime free; clip round end of seed with sharp knife otherwise germination will be poor and taking 1-2 years, while with clipped seed it germinates in couple of weeks.

Also can be sow in drills out doors but soak seed well; set plants 18" apart; avoid manure, nitrogen and lime.

PRICE: Oz. 75¢; lb. \$6.00. **LUP-54. 25¢**

NOTE: We can furnish six varieties in fixed colors to anyone interested; brick-red; yellow shades; pink with white flag; creamy white; showy carmine; marine-blue; These are the first Russel Lupins that come true from seed. **Oz. \$5.00.**

—**Carmine.** **LUP-50C. 20¢**

—**coelestinus.** **LUP-50B. 30¢**

Shades of azure-blue.

—Yellow.

—Princess Juliana.

—Dwarf bright pink; 3 ft.

—Roseus.

—Salmon Queen.

—Terre Cotta.

—White.

—Blend.

Oz. 85¢; lb. \$6.00. Above varieties.

OTHER SPECIES:

—arbores.

Sh to 8 ft; sulphur yellow fls; Calif. LUP-7. 35¢

—Lavender.

LUP-7L. 30¢

—hirsutus.

LUP-27X. 35¢

Blue Lupine; HA; 2 ft; blue, white and

rose flowers.

—Blue.

LUP-27B. 35¢

—Rose.

LUP-27Z. 35¢

—White.

LUP-27W. 35¢

—nootkatensis.

LUP-41. 50¢

3 ft; HP; blue fls, variegated with red

and yellow; May-July; Alaska.

—perennis.

LUP-45. 30¢

Blue to pink and white fls; May-June;

Me.-Fla; 2 ft; HP.

—pubescens Rose Queen.

LUP-51Z. 30¢

(Tricolor) Semi-dwarf; bright, pure rosy

pink; space 1½-2 ft apart.

—luteus.

LUP-51L. 35¢

(Sulphureus superbus) Yellow fls; 20 in.

—rivularis.

LUP-53. 25¢

Blue or variegated fls marked with yellow;

3 ft; HP; they are similar in size to

the Russel type but more spreading and

blooms a month earlier.

—subcarnosus.

LUP-56. 25¢

Texas Blue Bonnet. 15"; massive flower

spikes; HA. Oz. 50¢; lb. \$3.00.

LUTKEA.

—pectinata.

LUTK-1. 25¢

LYCHNIS

Caryophyllaceae. Brilliantly colored fls easily grown from seed sown indoors early in the spring when they will bloom the same season; sun; rather dry soils; LW; C-23; (LIK-nis); one of the easiest annuals to grow; produce a brilliant display of color; keep seed pods picked off; sow 1st week in April where they are to grow; thin well; HA.

—alpina.

LYCH-2. 25¢

Pink fls in dense terminal heads; tufted;

1 ft; RG; HP.

—aridus.

LYCH-3. 25¢

—Arkwrightii Hybrids.

LYCH-4. 25¢

Showy; nice color range; 18"; HP. ½ Oz.

75¢.

—chalcidonica.

LYCH-7. 25¢

Scarlet fls in dense terminal heads; June-

July; 2-3 ft; HP. Oz. \$1.00.

—alba.

LYCH-7A. 30¢

—Robert.

LYTH-7B. 35¢

Nice pink variety; JJune-Sept.

—Coli-rosa.

LYCH-8. 20¢

Rose-of-Heaven. Rose-red terminal fls;

18"; HA; space 12" apart.

—candida.

LYCH-8C. 25¢

White form; HA.

—Fiery Red.

LYCH-8F. 30¢

—Loyalty.

LYCH-8L. 25¢

Blue on 6" plants; HA.

—nana compacta.

LYCH-8NK. 25¢

Mixed colors indwarf compact plants.

—nobilis.

LYCH-8N. 25¢

Chamois rose. ½ oz. 40¢.

—Rose Beauty.

LYCH-8RB. 25¢

Lovely large flowered deep rose; 18"; HA.

—Blue Pearl.

LYCH-8B. 25¢

—Azure.

Rosy light blue.

—Mixed Coeli-rosa Var.

—coronaria.

Rose Champion. Crimson; treminal fls;

3 ft; thrives on dry warm banks but will

grow anywhere; HB or HP.

—astrosanguinea.

LYCH-10A. 25¢

Dark blood-red fls.

—Red.

LYCH-10R. 25¢

Deep red color.

—coronaria, Mixed.

LYCH-10X. 30;

—Flos-cuculi.

LYCH-13. 25¢

Cockoo-flower. Red or pink panicles;

May-Aug; 15"; HP.

—Flos-Jovis.

LYCH-14. 25¢

Flower-of-Jove. Pink in dense umbels;

June-July; 18"; HP.

—Hori. Variety.

LYCH-14H. 20¢

Pink fls over silver rosettes; 5"; HP.

—Forrestii Hybrids.

LYCH-16. 25¢

Shades of pink to crimson and white;

20"; HP. Oz. \$2.00.

—Haageana.

LYCH-19. 20¢

Hybrid; brilliant orange-red fls; May-

June; 20"; HP.

—utriculata.

LYCH-29. 25¢

Tender perennial.

—Viscaria.

LYCH-30. 30¢

Red and purple fls, ½" ac, in clusters;

May-June; 18"; HP.

—splendens.

LYCH-30S. 30¢

German Catchfly. Large flowering; HP.

—Lychnis Blend.

LYCH-X. 20¢

LYCIUM.

(LISH-ee-um)

Box Thorn. Matrimony Vine. Solanaceae.

Ornamental shrubs requiring support; they

are hardy in the North.

—chinensis.

LYCI-4. 30¢

Arching sh to 10 ft; purple fls, ½" long;

scarlet to orange-red fruits; China. Oz. 60¢

—europaeum.

LYCI-5. 30¢

Box Thorn. Spreading shrub to 10 ft;

scarlet or orange fruits. Oz. 60¢.

LYCOPODIUM.

(ly-GOH-di-um)

Club Moss. Lycopodiaceae. Grown in

moist shady places; acid soil; used as Xmas

greens.

—clavatum.

LYCO-3. 50¢

LYGODIUM.

(ly-GOH-di-um)

Schizaeaceae. Twining vine-like Fern; trop.

—palmatum.

LYGO-5. 50¢

Climbing Fern. The only Fern with

climbing stems native to the U.S.; shade

or part; 2-4 ft; extra good.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—scandens.

LYGO-7. 50¢

—squerrhosa.

LYGO-8. 50¢

LYONIA.

(lye-OH-nee-uh)

Ericaceae. (Xolisma) Evergreen and decid-

uous shrubs, usually best in moist soils; sow

seed in sand and sphagnum, indoors; good

for colonizing.

—mariana.

LYON-4. 35¢

Stagger Bush. Deciduous; 6 ft; May-

June; fls nodding, terminal racemes; (V).

LYSIMACHIA.

(ly-si-MAY-ki-ah)

Loosestrife. Primulaceae Annuals and

perennials; summer blooming; in white or

yellow, sometimes purple and blue, in spikes

or racemes. Good in moist places and edges

of pools or streams.

—evalvis.

LYSM-8. 40¢

—japonica.

LYSM-11. 40¢

- Decumbent to 5"; yellow fls; E. Asia.
 —*ramosa*. LYSM-15. 25¢
 —*Mixed*. LYSM-X. 20¢

LYTHRUM.

(LITH-rum)

Loosestrife. Lythraceae. Annuals and perennials; border or wild garden; easy in moist soils; they are one of our brightest and gayest perennials; sun or part.

- Salicaria v. roseum*. LYTH-7R. 30¢
 Purple Loosestrife. Large rose-colored fls in dense terminal spikes; 3 ft; (IV); HP.
 —*Robert*. LYTH-7B. 30¢
 Pink arietty; June to September.

MAACKIA.

Leguminosae. Deciduous trs from E. Asia; similar to *Cladrastus*.

- amurensis*. MASC-3. 40¢
 Tree to 40 ft; fls dense upright paniced racemes. Oz. \$1.00.

MACADAMIA.

Proteaceae. Australian trs and shs; grown in zone (X) for their edible nuts.

- ternifolia*. MACA-4. 50¢
 Queensland Nut. Tr to 50 ft; will stand light frosts; requires heat to germinate; plant singly in pots; 90 seed to pound. 100 seeds \$2.50.

MACHAERANTHERA.

Compositae. A genus of American daisy-like annuals, biennials and perennials, similar to hardy Asters; Tahoka Daisy is a commonly grown species; C-7.

- tanacetifolia*. MACE-1. 35¢
 Tahoka Daisy. HB; 2 ft; fl-heads 2" ac; ray-fls blue-violet, disks yellow; good for border or cutting; sow seed in fall or early spring.

MACHAERIUM Tipa: see *Tipuana Tipu*.

MACLEAYA.

(mah-KLAY-ah)

Plume Poppy; *Bocconia*. Papaveraceae. Perennials used for their bold and attractive habit and appearance; flowers are small and in terminal panicles.

- cordata*. MACL-1. 25¢
 Leaves 8" ac; specimen plants; 6 ft; HP.

MACLURA.

(mah-KLOO-rah)

Moraceae. Deciduous American trees.

- pomifera*. MACU-1. 25¢
 Osage Orange. Sow in spring; soak seeds in warm water. Oz. 50¢.

MACROPIDIA.

Monotypic genus.

- fulingosa*. MACR-8. 50¢

MAESA.

Myrsinaceae. Trop. shs and trs grown in GH or in far South.

- japonica*. MAES-5. 35¢
 Tr to 25 ft; racemes 4" long; Japan. ½ Oz. \$1.50.

MAGNOLIA

Magnoliaceae. Showy trees and shrubs with large pink, white, purple or yellow fls followed by cone-like fruits; very ornamental. Sow seeds in the fall or stratify till spring.

- acuminata*. MAGN-1. 75¢
 Cucumber-Tree. Best to sow in spring; (V); used as understocks to graft the varieties. Oz. 70¢.

—Campbellii.

Tree; fls pink outside, white inside; 50" across; (VII); 150 seed to oz.

- Pink*. MAGN-8. 75¢
 —*Red*. MAGN-6P. 75¢
 —*White*. MAGN-6R. 75¢
 —*denudata*. MAGN-6W. 75¢
 —*denudata*. MAGN-12. 75¢
 (conspicua) A splendid tr to 45 ft; large pure white fls early May; (V). MAGN-12. 60¢

—*grandiflora*. MAGN-18. 75¢
 Bull Bay. Fine ev tr to 100 ft; white fragrant fls to 8" ac; (VII). Oz. \$1.20.

- globosa*. MAGN-17. 75¢
 Bull Bay. (VII); white fls; fragrant; Oz. 60¢.

—*Kobus*. MAGN-20. 40¢
 Tree to 30 ft; white fls, 4" ac; used as an understock for grafting varieties; Japan. easy from seed. Oz. 75¢; lb. \$4.00.

- borealis*. MAGN-20B. 50¢
 A pyramidal form with large lv. Oz. 80¢

—*liliflora*. MAGN-22. 75¢
 Sh to 10 ft; fls 4" long, purple outside, white inside; (discolor); China. Oz. 95¢.

- macrophylla*. MAGN-23. 50¢
 Large Leaf Cucumber Tree; (V); white. d.b. Oz. 50¢; lb. \$4.25.

—*obvata*. MAGN-27. 50¢
 Tree; white fls; fragrant, 7" ac; (VII). Oz. 75¢; lb. \$3.50.

- salicifolia*. MAGN-30. 50¢
 Tr to 30 ft; fls 5" ac; white; Japan. Oz. 90¢

—*Sieboldii*. MAGN-31. 50¢
 Tr to 30 ft; white, fragrant fls, 4" ac; crimson fruits; Japan.

- Soulangeana*. MAGN-32. 30¢
 Hybrid M. *denudata* x *liliflora*; hardy in N; fls purplish outside, white inside, 6" ac.

—*Lennei*. MAGN-32L. 50¢
 Fls rosy purple outside.

- rubra*. MAGN-32R. 50¢
 (M. *rustica rubra*) Rose-red fls.

—*tripetala*. MAGN-40. 50¢
 Umbrella-tree. 40 ft; (V). d.b. Oz. 50¢; lb. \$4.00.

- Mixed*. MAGN-X. 60¢

MAHONIA.

(ma-HOH-nee-ah)

Berberidaceae. Evergreen shrubs similar to the Barberry; fls in yellow racemes followed by blue berries; some are hardy in the North and should be planted in sheltered spots from wind and hot sun.

The importing of seed of this genus is prohibited thus scarce; U. S. sources needed.

- Aquifolium*. MAHO-1. 50¢
 Holly M; Oregon Grapes. 3 ft; hardy in N.

—*Bealei*. MAHO-3. 40¢
 (japonica) 12 ft sh; (V); China. Oz. 90¢.

- nervosa*. MAHO-11. 40¢
 Oregon Grapes. 2 ft; hardy to III zone;; racemes to 8" long.

—*repens*. MAHO-16. 30¢
 Low growing; bluish green lvs; hardy in N; 1 ft; HP.

MAIANthemum.

(ma-AN-the-mum)

Liliaceae. (Unifolium) Easily grown perennials useful in colonizing in shady places.

- canadense*. MAIA-10. 50¢
 Heart-shaped lvs at base; 7"; (II); HP.

—*dilatatum*. MAIA-12. 40¢
 Strong grower; 12"; small white fls; HP; Alaska.

MAJORANA.

Labiatae. Perennials and sub-shs; grown mainly as sweet herbs.

—hortensis.

Sweet Majoram. Perennial but grow as an annual; 2 ft; space 6-8" apart; make successive plantings; can be made; start early indoors. Oz. \$1.00.

MALACOCARPUS. (mal-ak-oh-KARP-us) (WS, CG) Full sun; porous compost; mainly yellow fls.

—erinaeus. **MAJO-4. 25¢**

Spiral ribs, dark brown spines.

—pampeanus: see *Notocactus*.

—mammillarioides: see *Notocactus* mamm.

—sellowii. **MALK-19. 50¢**

Globular, 6" ac; yellow fls, 1¾" long; S.A.

MALCOMIA. (mal-KOH-me-ah)

Malcome Stocks. Cruciferae. Annuals and perennials with grayish leaves; sow seeds early indoors or direct to the garden.

—littorea. **MALC-2. 40¢**

Purple fls; will bloom first year; HP.

—maritima. Mixed. **MALC-3X. 25¢**

Virginia Stocks. Fine for border; 12";

HA; seed can be sown every 2 weeks during the spring for succession bloom; pretty

in any spot where it will not be crowded

out by grass; space 4"; HA.

—Crimson. **MALC-3C. 25¢**

—Fairy Queen. **MALC13F. 30¢**

—rosea. **MALO-3R. 35¢**

—White. **MALO-3W. 35¢**

—Yellow. **MALC-3Y. 25¢**

MALOPE. (MAL-oh-pee)

Malvaceae. Showy annuals with large solitary flowers; C-1.

—trifida. **MALO-3X. 35¢**

Fls 3" across; 3 ft; mixed colors. Oz. 50¢.

space 18"; HA.

—Rose. **MALC-3Z. 25¢**

—Red. **MALC-3R. 25¢**

—White. **MALC-3W. 25¢**

—Purple-red. **MALO-3P. 35¢**

—Brilliant Roze. **MALC-3BZ. 30¢**

All above: Oz. 50¢; 4 oz. \$1.50.

MALUS. (MAY-lus)

Apple. Rosaceae. The oriental Crabs of the *Malus floribunda* group come true from seed.

—floribunda. **MALU-15. 35¢**

Showy Crab-Apple. c.s. Oz. 70¢; lb.

\$8.50

—Sieboldii. **MALU-36. 75¢**

Toringo Crab. Shrub or tree 15 ft;

hardy in North; Japan. Oz. \$8.00.

—sylvestris. **MALU-53. 40¢**

(*Pyrus Malus*) Apple. The seed is from

Australia.

—Zumi. **MALU-50. 75¢**

Tree to 20 ft; fls 1" across; pink in bud.

MALVA. (MAL-vah)

Mallow Malvaceae. Erect spreading plants, easily grown in the border. Best to sow seeds where they are to grow; C-23.

—capensis: see *Malvastrum*.

—sylvestris maureitiana. **MALA-17M. 40¢**

—moschata. **MALA-10. 35¢**

Musk M. Fls rose to white, 2" ac; 2 ft;

HP.

—moschata rosea. **MALA-10R. 30¢**

Musk Malva. 2 ft; HP; fls rose-pink; (IV).

—sylvestris mauritiana. **MALA-1M. 35¢**

MALVASTRUM. (mal-VAS-trum)

False Mallow. Malvaceae. Mallow-like plants and sub-shrubs with purple or red fls;

usually in terminal spikes; makes nice plants

in the border and sometimes grown in GH.

—capensis. **MALV-1. 35¢**

(*Malva Capensis*) 4 ft; purple fls; (IX).

—scabrosum. **MALV-9. 40¢**

Small rosy fls; 3-4 ft; TSh.

—virgatum. **MALV-15. 35¢**

Erect; small pale pink fls; 3-4 ft; TSh.

MAMMELLARIA

Cactaceae. (*Neomammillaria*) Mainly Mexican Cacti. It is a very popular genus; C-63.

(WS, CG) Usually low growing, clustered plants; easy from seed; free-flowering; general compost for most species; full sun but some shade in hot period.

This is a good genus for beginners to start on; the seeds germinate freely.

MAMMALLARIA SPECIES

We have many species of this genus and will send 15 packets, **OUR SELECTION**, from the above list, value about \$7.50, **FOR ONLY \$3.00.**

See extral tisting under Cactus.

—agregia. **MAMM-5. 60¢**

—angularis. **MAMM-10. 60¢**

—aurethamata. **MAMM-20. 50¢**

—auriareolis. **MAMM-19. 50¢**

—bella. **MAMM-26. 75¢**

Mound; white fls; Mexico.

—Browae. **MAMM-35. 50¢**

—cadereyensis. **MAMM-36. 75¢**

—chionocephala. **MAMM-48. 60¢**

—cirrhifera longiseta. **MAMM-50L. 75¢**

—collinsii. **MAMM-56. 60¢**

—compressa. **MAMM-57. 35¢**

Pinkish fls, ½" long; Mexico.

—crocidata. **MAMM-66. 75¢**

—quadrifida. **MAMM-66Q. 75¢**

—Dawsonii. **MAMM-69. 50¢**

—decipiens. **MAMM-70. 75¢**

—densispina. **MAMM-72. 50¢**

Globose; 4" diam; fls yellowish inside

purple outside, ½" long; Mexico.

—durispina. **MAMM-85. 75¢**

—elegans. **MAMM-92. 75¢**

—elongata. **MAMM-95. 50¢**

Small dense clumps; fls white, ½" long.

—Fischeri. **MAMM-106. 50¢**

Pale yellow fls; Mexico.

—splendens. **MAMM-129S. 45¢**

—Hahniana. **MAMM-133. 50¢**

Globose; 4" high and diam; rose-carmine

fls; Mexico.

—Jnaiae. **MAMM-143. 50¢**

—Krawinskyana. **MAMM-145. 50¢**

—kewensis. **MAMM-147. 40¢**

—craigeana. **MAMM-147C. 70¢**

—kunthii. **MAMM-150. 75¢**

—lanata. **MAMM-152. 60¢**

—leucocentra. **MAMM-156. 40¢**

—longicoma. **MAMM-150. 50¢**

—magallanii. **MAMM-168. 60¢**

—Magnimamma. **MMAM-169. 40¢**

—flavovirens. **MAMM-169F. 50¢**

—mammillaris. **MAMM-172. 40¢**

(M. simplex) 2½" high; cream fls; Vene.

—Marksiana. **MAMM-172. 60¢**

—martinezii. **MAMM-174. 65¢**

—mayensis. **MAMM-175. 40¢**

—mercadensis. **MAMM-181. 40¢**

—mieracantha. **MAMM-190. 50¢**

—superfina. **MAMM-190S. 50¢**

—morganiana. **MAMM-201. 75¢**

—nigra. **MAMM-212. 75¢**

—peninsularia. **MAMM-230. 50¢**

—perbella. **MAMM-232. 50¢**

Globose; fls reddish, ½" long; Mexico.

—pilispina. **MAMM-240. 60¢**

- Parkinsonii*. MAMM-228. 50¢
- Walthonii*. MAMM-228W. 50¢
- Gladiiformis*. MAMM-228G. 50¢
- Pettersonii longispina*. MAMM-234L. 40¢
- Cylindric; 8" high; Mexico.
- polythele*. MAMM-244. 50¢
- Cylindrical, 8" high; reddish fls; Mexico.
- hexacantha*. MAMM-244H. 40¢
- potosini v. giganteafl*. MAMM-244G. 50¢
- Pottsii*. MAMM-247. 60¢
- pseudoserpertexta*. MAMM-254. 50¢
- ritteriana*. MAMM-266. 60¢
- rosealba*. MAMM-268. 50¢
- Globose; 2½" high; 3" diam; white fls.
- Schiedeana*. MAMM-282. 50¢
- Globose; 3" diam; white fls; Mexico.
- Schwarzii*. MAMM-284. 50¢
- sempervivi quadrispina*. MAMM-286Q. 50¢
- solisioides*. MAMM-289. 50¢
- sombreretensis*. MAMM-288. 60¢
- sphacelata*. MAMM-291. 50¢
- Caspitose; clusters, 1½" diam; 8" high;
- rose-purple fls; Mexico.
- spinosissima*. MAMM-290. 40¢
- sanguinea*. MAMM-290C. 50¢
- tiegeliana*. MAMM-300. 60¢
- Trohauii*. MAMM-299. 50¢
- 2½" diam; pale pink fls, ¾" long; Mex.
- Veldhuizeana*. MAMM-307. 50¢
- Vireckii*. MAMM-308. 40¢
- wadermanniana*. MAMM-404. 50¢
- weberiana*. MAMM-407. 75¢
- weisingeri*. MAMM-409. 75¢
- Zacatecasensis*. MAMM-418. 50¢
- zephyranthoides*. MAMM-419. 60¢

MANDENVILLEA.

Apocynaceae. Woody vines of trop. Am. Use equal parts peat and sandy loam.

- laxa suaveolens*. MAND-2. 50¢
- Chilean Jasmine. Semi-decid climber with large white, scented fls; easily grown from seed.

MANGIFERA.

Anacardiaceae. Mango. Suitable for growing only in the South.

- indica*. MANG-5. 50¢
- In mixed varieties; India; seed available May-June. 100 seeds \$6.00. Orders should be placed by April.

MANIHOT.

(MAN-ee-hot)

Euphorbiaceae. Tropical Amer. trees and shrubs useful for their large fleshy roots.

- esculenta*. MANI-4. 50¢
- Cassava, Manioc, Tapioca Plant. Shrub; 9 ft; edible. (X).

MARIGOLD

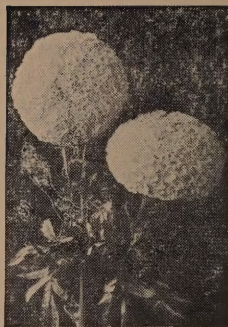
Tagetes. Compositae. Marigolds are fairly hardy and therefore they should be planted rather early in the spring; there are many beautiful varieties in both types.

If you would like to grow Marigolds indoors during winter, sow seed middle of August and grow at 50 degrees F; will flower from Dec to late Feb.

AFRICAN MARIGOLDS: These are strong feeders and require plenty of water, therefore plant them in the richest, most favorable section of your garden; seed may be sown direct or indoors and set out in May; give plenty of room, usually 3 ft.

NOVELTY TYPES: Large blooms; 3-5 ft. high and flowers to 4-5 inches across; beds and the odorless varieties for cutflowers.

- Treasure Chest*. MARY-1T. 20¢



TALL DOUBLE AFRICAN MARIGOLDS

Large ball-shaped heads in mixed colors

- Crown of Gold*. MARY-1CG. 25¢
- Collarette type; Gold Medal; odorless; golden orange fls.

- Gigantea Sunset*. MARY-1GS. 20¢

Huge yellow or primrose fls, 5" ac; 3½ ft.

- Glitters*. MARY-1G. 25¢

An All-American selection in 1951; large *Chrysanthemum*-type; golden yellow fls; ft. ½ Oz. \$1.25.

- Goldilocks*. MARY-1GL. 25¢

NEW. Like *Glitters* in plant habit and flower form but bright golden yellow.

- Golden Ball*. MARY-1GB. 20¢

Deep golden yellow; double fls.

- Golden Glow*. MARY-1GG. 20¢

Very large golden heads, 5" ac; odorless.

- Mission G'ts Goldsmith*. MARY-1MG. 25¢

Perfect ball-shaped type; huge golden fls.

- Yellowstone*. MARY-1YS. 25¢

Golden yellow; incurved; huge heads.

- Gypsy Jewels*. MARY-1GJ. 25¢

A wide range of brilliant colors; sweet; 15" high; neat plants.

- Golden Bedder*. MARY-1BD. 25¢

Chrysanthemum flowered; deep golden.

- Golden Queen*. MARY-GQ. 20¢

- Moonlight*. MARY-1M. 20¢

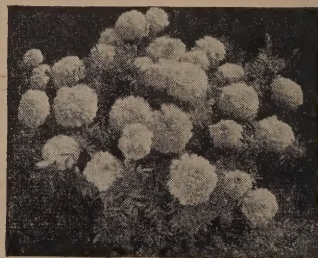
Tall giant flowered; yellow; extra double.

- Orange Queen*. MARY-1OQ. 20¢

Medium height; double flowers.

- Primrose Queen*. MARY-1PQ. 25¢

Dwarf growth.



POTS O'GOLD

- Pots O'Gold*. MARY-1PG. 30¢

Deep golden orange; dwarf, compact.

- Silver Light*. MARY-1V. 20¢

Improved Yellow Supreme; dandy.

- Sunlight*. MARY-1S. 20¢

Giant flowered; bright orange-red.

- Little Giants, Mixed*. MARY-1LG. 20¢

Collection of dwarf large-flowering; 15".

- Early Sunrise*. MARY-1ES. 20¢

Dazzling golden yellow; 4 ft.
Deep golden; dwarf plants; good bedder.
—Above Mixed. **MARY-1X. 20¢**

TALL DOUBLE AFRICAN: All double or fistulosa type flowers with quilled petals and all 100% double; favorites for bedding or cutting; 2½ ft.

GH growing sow Jan. 1st for May 1st; grow as single stem and space 3x4" at 50F.

—All Double Gold. **MARY-2G. 20¢**
—All Double Lemon. **MARY-2L. 20¢**
—All Double Orange. **MARY-2N. 20¢**
—All Double Mixed. **MARY-2X. 20¢**
—All double Sulphur-Yell. **MARY-2SY. 25¢**
—Lemon Queen. **MARY-2LO. 20¢**
Los Angeles florist strain; lemon-yellow.
—Golden Emblem. **MARY-2GE. 20¢**
—Golden Prince. **MARY-2P. 20¢**
Rich gold, between Lemon Queen and Orange Prince.

DWARF DOUBLE FRENCH:

—Dobbie's Dwarf. **MARY-8D. 20¢**
Striped double flowers.
—Electric Light. **MARY-8EL. 20¢**
Dwarf double; bright yellow.
—Orange Ball. **MARY-8GB. 25¢**
Dwarf double orange.
—Orange Flame. **MARY-8F. 20¢**
A new German variety.
—Perfect Beauty. **MARY-8PB. 25¢**
Large flowering, fully double, golden orange flowers with dark brown edge; very long and strong stemmed; compact habit; 12 inches. **Oz. \$1.90.**
—Purple Crown. **MARY-8PC. 20¢**
Showy new German variety.
—Robert Beist. **MARY-8RB. 20¢**
Rich maroon; 1 ft.
—Royal Scot. **MARY-8RS. 20¢**
All double; rich mahogany and gold com-

FIRETAIL. MARY-8FT. 25¢

A new type; entirely different than any Marigold on the market. Base color is a rich golden orange with a dozen or more dart or tongue-like reddish scarlet markings shooting up thru the wax-like golden orange petals from the base of the bloom; the single row of overlapping guard petals are the same color and have the same scarlet markings at base of petal. A striking color combination. Height 10-12 inches; 40-50 blooms per plant. Try this new Marigold this year. ¼ **Oz. \$2.50.**

—bination; 1 ft.
—Rusky Red. **MARY-8R. 20¢**
Double; rusty red, gold edged on frilled petals; new.
—Scarlet Glow. **MARY-8G. 20¢**
Showy scarlet flowers.
—Sunbeam. **MARY-8SB. 20¢**
Pure golden yellow; pretty; 15".
—Tangerine. **MARY-8T. 20¢**
New; tangerine-orange; full double, 2" ac
—Double Monarch. **MARY-8DM. 20¢**
—Above Mixed. **MARY-8X. 20¢**

DWARF SINGLE FRENCH:

—Ferdinand. **MARY-9F. 20¢**
Golden yellow with mahogany-red; 2 ft.
—Fire Cross. **MARY-9FC. 20¢**
Deep orange-yellow, blotched maroon; 10".
—Flash. **MARY-9FL. 20¢**
New red and gold bicolor; dandy; good for pots or border; 15".

—DAINTY MARIETTA. MARY-9DM. 30¢

A new variety and really a dainty Naughty Marietta. Blooms are much larger; plant dwarf and compact; fls 2" across in soft golden yellow with a crimson blotch at the base of each petal; the small crested center is very showy; plants not above 6 inches. ½ **Oz. \$2.00.**

—Gold Edged. **MARY-9GE. 20¢**
Showy single variety.
—Legion of Honor. **MARY-9LH. 20¢**
Pretty yellow, blotched brown; dwarf.
—Naughty Marietta. **MARY-9NM. 20¢**
Light yellow, maroon blotch; single.
—Above Mixed. **MARY-9X. 20¢**



BROWNIE

MINIATURE DOUBLE FRENCH: Excellent for pots, edging or low beds.

—BROWNIE. **MARY-10B. 30¢**
Mahogany with well crested center; 6 inches; very pretty. ¼ **Oz. 60¢.**
—Butterball. **MARY-10B. 20¢**
Soft yellow with maroon center; 8".
—Spry. **MARY-10SP. 20¢**
Yellow crested with red guards; 9".
—Sunkist. **MARY-10S. 20¢**
Bright golden orange; good with Butterball; 8 inches.
—Yellow Pigmy. **MARY-10YP. 20¢**
A very dwarf bright yellow; 10".
—Gem Mixture. **MARY-10GX. 20¢**
New dwarf mixture; neat form; continuing all the best varieties.

CARNATION TYPE AFRICANS: Carnation-type flowers with fluffy broad petals and nearly 100% double; 2½ ft.

—Burpee Gold. **MARY-3BG. 20¢**
Odorless foliage; bright gold.



FERDINAND



TALL AFRICAN

- Golden Crown. MARY-3GC. 20¢
Dwarf strain in golden yellow; low beds.
- Yellow Supreme. MARY-3YS. 20¢
—Pretty lemon-yellow.
- Golden West. MARY-3GW. 20¢
Early; dwarf strain of Guinea Gold; 2 ft.

FRENCH MARIGOLDS: Mainly small 12-15 inch plants, with smaller flowers than the Africans; they are especially good for beds and borders; many varieties are ideal for edging. This type does better if planted where they are to grow, as they do not take well to transplanting; they also do better if the soil is not extra rich nor too moist.

NEW HARMONY TYPE: These have a crested form flower; excellent for beds.

- Gold Crest. MARY-6GC. 20¢
Deep golden orange, 2" ac; quilled petals; 8 inches.
 - Golden Harmony. MARY-6GH. 20¢
Luminous golden yellow; 1 ft.
 - Clinton. MARY-6C. 20¢
Orange; frilled and waved petals; odorless foliage.
 - Golden Supreme. MARY-6GS. 20¢
Larger fls than Golden Harmony; 18".
 - Harmony. MARY-6H. 20¢
Deep orange, maroon color; 1 ft.
 - Melody. MARY-6M. 20¢
Clear all golden yellow, 1 1/4" ac; 1 ft.
 - Orbit. MARY-6B. 20¢
Golden yellow center, reddish brown guards; 1 ft.
 - Spotlight. MARY-6SL. 20¢
Yellow center, mahogany border; early; 1 ft.
 - Winter Harmony. MARY-6WH. 20¢
Winter flowering type for the GH.
 - Dwarf Harmony. MARY-6DH. 20¢
Uniform 11" plants; 2-tone lemon and dark red.
 - Harmony Types Mixed. MARY-6X. 20¢
Double hybrids for cutting.
 - Tall Harmony. MARY-6TH. 20¢
- TAGETES SIGNATA PUMILA:**
- Gnome. MARY-11G. 20¢
A dwarf compact single orange; RG; 6".
 - Signata pumila. MARY-11SP. 20¢
Bright yellow; tiny single fls; edging; 8".
 - Little Giants. MARY-11LG. 20¢
 - Ursula. MARY-11R. 30¢
Compact plants with golden orange fls. 1/2 Oz. \$1.00.
 - tenuifolia, Golden Ring. MARY-GR. 20¢

—LULA.

MARY-11L. 30¢

The first lemon-yellow Marigold and, like the well-known orange variety, a first-class plant for bedding and edging. Compact, dome-shaped plants which are covered with flowers throughout the summer and autumn months; 21 inches; HHA.



MARIGOLD — Gnome

MARJORAM: see *Origanum hortensis*.

MARKHAMIA.

Bignoniaceae. Tropical shrubs and trees; large tubular-funnel-form fls; (X).

—Hildebrandtii. MARK-6. 50¢
From East Africa; (X).

MARRUBIUM.

Horehound. Labiatae. Sow seed early in spring will give good plants following year.

—vulgare. MARK-10. 25¢
Horehound. Easy HP; lvs dried slowly makes a healthful tea; poor soil; germ. slowly; sow early; space 6". Oz. 90¢.

MATHIOLA

Stocks. Cruciferae. Annuals and perennials, some sub-shrubs, native mostly of Mediterranean and commonly known as Stocks. Flowers are in lilac, purple and white, in terminal racemes. *M. bicornis* is the Evening Stock or Perfume Plant, very fragrant in the evening but the flower is closed during the day. *M. incana*, the Common Stock or Brampton Stock or Gilliflower; and a type of it is the Ten-Weeks-Stock; C-1; (mat-THY-oh-lah).

M. INCANA: Sturdy erect plants in many colors. They make good flowers both out in the spring or summer sown seed will make good house plants for winter; they are handled as HHA; C-7; they have cordial properties, when added to green salads.

TRYSONIC STOCKS

MACH-5. 75¢

After continuous breeding since 1915, Trysonic Stocks will produce 85% doubleness from seed; at the 4-leaf seedling stage the singles are noticeably weaker and can be sorted out; 42,000 seeds to oz; this is the earliest Stock grown; first throws a central spike of bloom some 6-7" high, and then produces numerous side branches throughout its growing period eventually growing to 15" high; brilliant color range thru pink and rose, deep crimson, dark blue and purple. 1/4 Oz. \$9.00

DOUBLE GIANTS OF CALIFORNIA:

A superb branching type with immense

spikes of very large florets. The following varieties all produce a high percentage of double flowers. ½ Oz. \$2.00; Oz. \$3.80.

- Golden Gate. MACH-1G. 40¢
Rich yellow flowers.
- ed Woods. MACH-1R. 40¢
Blood-red, a popular color.
- Roselight. MACH-1Z. 40¢
Rose-pink. ½ Oz. \$2.90; Oz. \$5.00.
- Santa Barbara. MACH-1B. 40¢
Chamois.
- Santa Maria. MACH-1M. 40¢
Nice white.
- Sequoia. MACH-1S. 40¢
Rose-carmine.
- Yosemite. MACH-1Y. 40¢
Pure rich rose.
- Blend of Above. MACH-1X. 30¢
½ Oz. \$2.00; Oz. \$3.50.

DOUBLE GIANT FLOWERING STOCKS:

Immense, fully double, closely spaced flowers, on 2-2½ ft spikes per plant; strictly non-branching; C-7.

Sow non-branching Stocks about Jan. 5-10 for Memorial Day and early May.

- Ball's No. 2. MACH-2BW. 50¢
Large white spike tinged pink.
- Ball's No. 14. MACH-2Z. 50¢
Rose-pink, deep color.
- Gardenia. MACH-2G. 50¢
Very large single pure white.
- Purity. MACH-2W. 30¢
Non-branching pure white.
- Special Perfection, Mixed. MACH-2P. 50¢
About 55% light leaved and 45% dark; the light giving extra double fls.
- Blend of Above. MACH-2X. 50¢

ANY ABOVE: Oz. \$8.00.

EARLY GIANT IMPERIAL: Branching

habit; flowers on long stems making it a desirable cutting type; 2 ft; high double centage.

- Blood-red. MACH-3B. 20¢
- Chamois. MACH-3C. 20¢
Ivory tinged with rose.
- Fiery Red. MACH-3R. 20¢
- Rose. MACH-3Z. 20¢
- Rose Charm. MACH-3RC. 20¢
- Roselight. MACH-3RL. 20¢
- White. MACH-3W. 20¢
- Blend of Above. MACH-3X. 20¢

ANY ABOVE: ¼ Oz. \$2.00; Oz. \$8.00.

TEN-WEEKS-STOCK: Dwarf compact, and

fine for bedding; sweet scented; 12"; grow as an annual; very early; start seed early indoors or they can be planted direct to the garden; these are true annuals.

- Dark Blue. MACH-4D. 20¢
- Old Rose. MATH-4Z. 25¢
- Canary Yellow. MATH-4CY. 25¢
- Crimson. MATH-4C. 25¢
- Carmin-red. MATH-4CR. 25¢
- Salmon-pink. MATH-4K. 25¢
- Lavender. MATH-4L. 25¢
- White. MATH-4W. 25¢
- Finest Mixed. MATH-4X. 25¢

All above at \$2.00 per Oz.

OTHER MATHIOLA SPECIES:

- bicornis. MACH-10. 35¢
Night Scented Stock, Perfume Plant. Fls rosy lavender; sow out doors during March or April; HA. Oz. 50¢.
- inodorum V. Bridal Robe. MATI-3B. 30¢
True stock.

VIRGINIA STOCKS: see Malcomia.

We must make a 30¢ charge for Catalog.

MATRICARIA.

(mat-re-KAY-re-ah)

Matricary. Compositae. Mainly annuals with a few perennials, with finely cut foliage and small flower heads. They are easily grown treating them as you would Chrysanthemums.

- Chamomilla. MATI-2. 25¢
German Chamomile. Single fls; 2 ft; is mainly used as a herb; has apple-scent in May; HA.
- eximia: see Chrysanthemum Parthenium. Purple fls, downy outside. Oz. \$7.00.
- erubescens. MAUR-4. 50¢
Free blooming; pink fl'd vine. (M. scand-glove. Rose flowers.
- scandens. MAUR-18. 50¢
Purple fls; Mexico.
- globifera. MATI-4. 25¢
Yellow rayless button-like fls; 1½ ft; HHA; S. Af.

- indora v. Bridal Robe. MATI-3B. 25¢
Very double heads; white ray fls; 2 ft;
- Snowball. MATI-3S. 20¢
Small double heads; white ray-fls; 2 ft; HA. Oz. \$2.00.

ature and a fibrous loam soil with some leaf mould and cow manure when grown in GH fls in 22 wks from seed.

- Barclaiana. MAUR-3. 50¢
- parthenoides: see Chrysanthemum part.

MAURANDIA.

(mau-RAN-de-ah)

Scorophulariaceae. Bright flowered plants, mostly vines, for the GH or outdoors in the side and in the greenhouse; sow seed early far South. If seed is sown early they make excellent basket or window-box plants for the summer; they need a 60 deg. F. temper-

—Mixed.

MAUR-X. 30¢

MECONOPSIS

Papaveraceae. Annuals, biennials and perennials, requiring a cool moist summer, a sheltered and partly shaded place. They make attractive plants in the border; start the annuals early indoors, setting them out after frost danger; the perennials are best started in a frame over the first summer; fls are in racemes or panicles; some are hardy, other semi-hardy in the North; the NW Coast states are ideal for them; do not disturb when established; the seed germinates best after a cold spell; C-24. Most Meconopsis are monocarpic but if the center bud is cut off, the plant will live over several years instead of dying after flowering; best increased by seed

- betonicifolia. MECO-2. 30¢
A very beautiful species with sky-blue fls, 3" ac; blooms 2nd year from seed, sown in Spring and transplanted to garden by Aug; rich soil; part shade; 6 ft; HP.
- Baileyi. MECO-2B. 30¢
Very similar to above.

- cambrica. MECO-3. 30¢
Welch Poppy. Pale yellow fls 3" ac; solitary; 1½ ft; HP.
- aurantiaca. MECO-3A. 30¢
Orange flowered type of above.

- plena. MECO-3P. 50¢
Double orange form; rare.
- cathartii. MECO-5. 30¢
Golden yellow fls, 2-3" ac; HP.

- Dhwogii. MECO-6. 50¢
Yellow fls, 3" ac; woodland species, well drained soil; full shade; HP.
- horridula. MECO-9. 30¢

- Light blue or claret; solitary; 5 ft; HB.
 —**integrifolia.** **MECO-10. 30¢**
 Yellow Chinese Poppy. Yellow, 6" ac;
 3 ft; HB.
 —**napaulensis.** **MECO-13. 30¢**
 Satin Poppy. Pale blue satiny fls 2" ac;
 6 ft; HP.
 —**paniculata.** **MECO-14. 30¢**
 Yellow fls 2" ac. in racemes 2 ft long; 5
 ft; HP.
 —**Gray Rosette.** **MECO-14G. 40¢**
 Fine new form with gray rosettes.
 —**simplicifolia.** **MECO-18. 40¢**
 Nodding blue or purple solitary fls, 3"
 ac; 2 ft; HP.
 —**Plum Red.** **MECO-18P. 50¢**
 A nice new plum-red form.
 —**superba.** **MECO-21. 40¢**
 White fls to 5" ac; woodland; shade; 3-4
 ft; Tibet; HP.
 —**villosa.** **MECO-22. 40¢**
 Yellow fls, 2" ac; 2 ft; Himalayas.
 —**Mixed.** **MECO-X. 25¢**

- MEDEOLA.** (med-DEE-oh-luh)
 Liliaceae. One HP, tuberous rooted plant;
 edible; N. Amer.
 —**asparagoides:** see **Asparagus asparagoides**
 —**virginiana.** **MEDE-1. 25¢**
 Indian Cucumber Root. 2 ft; fls small,
 greenish yellow; (IV).

- MEDICAGO.** (med-ik-KAY-yuh)
 Medick. Leguminosae. Annual and peren-
 nials, a few shrubs, some of which are or-
 namental.
 —**arboorea.** **MEDI-3. 30¢**
 Tree Alfalfa; (VIII); 8 ft; orange-yellow.

- MELALEUCA.** (mel-al-LEW-kuh)
 Bottle-Brushes. Myrtaceae. Noted for their
 abundance of flowers, breath-taking brilliance
 of coloring, in some species, and are general-
 ly hardy in Australia where most are natives.
 Callistemon; in red, white or orange; some
 fls are like Eucalyptus; best to cut back hard
 after flowering; X; there are more than 100
 species, all but one Australian; similar to
 Callistemons.
 —**adnata.** **MELL-2. 50¢**
 6-10 ft; Australia.
 —**armillaris.** **MELL-8. 50¢**
 20-25 ft tr; Australia.
 —**crassifolia.** **MELL-12. 40¢**
 Oz. \$4.00.
 —**densa.** **MELL-14. 50¢**
 3 ft shrub; Australia.
 —**elliptica.** **MELL-17. 40¢**
 Red fls in spikes, 3" long.
 —**ericifolia.** **Oz. \$4.00.**
 Sh or tr; red fls in spikes 3" long. **Oz.**
\$3.00.
 —**erubescens.** **MELL-20. 50¢**
 5 ft sh; Australia.
 —**fulgens.** **MELL-26. 50¢**
 5-6 ft sh; one of the best; bottle-brush
 spikes of brilliant scarlet; very nice; W. A.
 —**Huegelii.** **MELL-27. 50¢**
 6-12 ft sh; dense "Red-Hot-Poker" spikes,
 5" long; cream fls; W. A.
 —**hypericifolia.** **MELL-29. 50¢**
 Tall shrub: fls rich red in dense spikes
 3" long; 6-10 ft; N. S. W.
 —**incana.** **MELL-32. 35¢**
 8-10 ft; silvery; deep brown color under-
 lying yellow fls makes it very pretty; warm
 condition necessary; W. A.
 —**Leucadendra.** **MELL-35. 50¢**
 Punk Tree. Creamy white fls: nice; (IX).
 —**lineriifolia.** **MELL-40. 35¢**
 20 ft; Australia.

- pubescens.** **MELL-24. 40¢**
 Sprading, bushy sh; white or cream fls
 in spikes 1" or more long; Australia.
 —**pungens.** **MELL-50. 50¢**
 5 ft shrub; Australia.
 —**radula.** **MELL-65. 50¢**
 Sh 7-10 ft; strong grower; attractive
 pinkish mauve fls tipped gold; W. A.
 —**stypeloides.** **MELL-60¢**
 —**pubescens.** **MELL-48. 50¢**
 16 ft; Australia.
 —**Wilsonii.** **MELL-74. 50¢**
 4-5 ft sh; purplish red fls; good; prune
 after flowering; S. A; Victoria.
 —**Mixed.** **MELL-X. 25¢**

MELANTHIUM.

- Bunch Flower. Liliaceae. Per. with stout
 root stalks and good for wild- or bog-
 garden.
 —**virginicum.** **MELM-5. 40¢**
 Decid; 2-4 ft; greenish yellow fls; July-
 Aug; moist shady places. **PLANTS: 75¢;**
3 for \$1.75.

MELIA.

- (MEE-lee-uh)
 Bead-Tree. Meliaceae. Tropical trees and
 grown in the far South.
 —**azadirachta.** **MELA-1. 35¢**
 Margosa, Neem. Ev. tr to 50 ft; for S.
 Oz. 95¢.
 —**Azedarach.** **MELA-3. 30¢**
 Pride of India China Berry, Indian Lilac.
 Not easy; best to have seeds delivered
 when fresh; it is claimed it is better not
 to remove from husk; warm soil, 70 F or
 better; bottom heat necessary in cool re-
 gions; 35 seeds to oz. **Oz. 60¢; lb. \$5.00.**

MELIANTHUS.

- (mel-ee-ANTH-us)
 Honey-Bush. Melianthaceae. Tropical
 grown in the South. They are pretty and
 decorative.
 —**major.** **MELH-4. 40¢**
 Honey Bush. Brownish fls, summer; 4-6
 ft; elegant leaved plant, thriving in well
 drained soil; herbaceous; HHP; (IX); Calif.

MELICA.

- (MEL-ik-uh)
 Melic Grass. Graminac. Ornamental
 perennial grass, hardy in the S; 3-4 ft.
 —**transsilvanica.** **MELI-4. 25¢**

MELICYTUS.

- Meliaceae. Dioecious trees and shrubs
 from (IX) and (X) zones; fls in clusters.
 —**ramiflorus.** **MELY-5. 30¢**
 Small tree; white bark; green fls followed
 by small blue berries; 15 ft; evergreen.

MELIOSMA.

- Sabiaceae. Tropical trs and shs from
 Asia; grown in (XI) zone.
 —**myriantha.** **MELM-5. 50¢**
 Tr to 30 ft; greenish yellow fls in erect
 panicles, 8" long; Japan. **Oz. 75¢; lb. \$6.00.**

MELISSA.

- (mel-LISS-uh)
 Labiatae. Balm. Erect perennial medicinal
 herbs; start seeds early indoors.
 —**officialis.** **MELS-1. 25¢**
 Balm. Lemon scented lvs used in flav-
 oring soups, etc; dried, makes tea; try a
 sprig, crushed, in cider; sow in May; trans-
 plant in fall; 2½ ft; the plant makes a nice
 stimulating tea. do not boil; promotes
 sweating; HP.
 —**Quedlinburg Down Laying.** **MELS-1E. 35¢**
 —**Erfurt Upright Growing.** **MELS-1R. 35¢**

MELASTOMA.

Melastomaceae. Tropical shs; grown in the GH in N or out doors in South.

—**malabathricum.** MELT-12. 50¢
Sh 8 ft; mauve-purple fls, 2" ac; N. S. W.

MELOCACTUS.

(mel-oh-KAK-tus)

Turk's Cap Cactus. Full sun; liberal watering during growing season, fairly dry during winter; rich gravelly soil, extra leaf mould.

—**oaxacensis.**

MELK-21. 60¢

MENTHA - MINT

Mint. Labiata. Easily grown herbs and used for its aromatic oil as well as ornamental.

—**piperita.** MENT-12. 50¢
Peppermint. 3 ft; HP. 1/4 Oz. \$4.00.

—**pulegium.** MENT-13. 50¢
Pennyroyal. A garden herb used as a tea or in stews; 5-8" high; easily grown; shade or part; HP. Oz. \$1.50.

—**spicata.** MENT-19. 50¢
Spearmint. (M. viridis) HP; 2 ft; start seed early.

—**viridis.**

MENT-9V. 50¢

MENTZELIA.

Loasaceae. Amer. plants and shrubs with very showy fls; sow seeds where they are to grow; seed can be sown in the open in mid-April; thin out and never allow plants to get dry; easy.

—**ferruginea.** MENS-6. 40¢
Greenish purple fls 1/2" long; 8 ft; Alaska. (Bartonia aurea) Golden yellow fls 2 1/2" across; 4 ft; TA; seed can be sown in the open ground in mid-April; thin out early and never allow plants to get dry. 1/4 Oz. 50¢.

One of the most brilliant of all annuals; large golden yellow fls resembling those of St. John's-wort; 2 ft; HA.

MENYANTHES.

(men-ee-ANTH-eez)

Bog-bean; Buckbean. Gentianaceae. One cold climate herb for wet places.

—**trifoliata.** MENY-1. 40¢
Found in peat bogs and calm water; has creeping root-stalk; blooms in June in Alaska; white fls tinted pink; germinate it in water.

MENZIESIA.

Ericaceae. Low decid. shs with bell- or urn-shaped fls in terminal clusters, followed by capsular fruits; RG.

—**cilicalyx.** MENI-3. 50¢
Fls yellowish green, tipped purple, 1/2" long; Japan. 1/4 Oz. \$1.00.

—**pentandra.** MENS-8. 50¢
Whitish fls; Japan. 1/4 Oz. \$2.00.

—**purpurea.** MENS-14. 50¢
Bright red campanulate fls, 1 1/2" long.

MERCURIALIS.

Euphorbiaceae. Herbs from Medit. regions grown for medicinal purposes.

—**annua.** MERC-1. 40¢
Hemp-Mercury. HHA; 2 ft.

MERCURY: see *Chenopodium Bonus-Henricus*. HP pot herb. See also *Mercurialis*.

MERTENSIA.

—**siberica.** MERT-35. 50¢
—**virginica:** see in plant list.

MESEMBRYANTHEMUM.

Aizoaceae. Fig-Marigold. Some 1,000 species of the Cacti group. They are from hot, dry regions and grown as pot plants, making interesting subjects for the house.

These are amongst the most colorful of the Succulents and with the largest variation in form and shape; fls are in very vivid hues; C-9.

Sand, leaf mould and loam in varying proportions, is the best soil mixture; usually 1/3 part leaf-mould to 3 of course sand, with a little loam; the mixture must not be too rich; keep dry during winter. —**cordifolium:** see *Apтения cordifolia*. —**criniflorum:** see *Dorotheanthus*. —**cristallinum.** CRYO-3. 25¢

Ice Plant. See *Cryophytum cristallinum*. —**tricolor:** see *Dorotheanthus gramineus*.

MESPILUS.

(MESS-pil-us)

Rosaceae. One deciduous tree grown for its edible fruit.

—**germanica.** MESP-1. 30¢
Medlar Tree to 20 ft; fruit edible; (IV). 100 seeds to oz. c. s. Oz. 50¢; lb. \$2.50.

METOTHRIA.

—**scabra.** MELO-3. 30¢
Sow seeds in April; TA.

METROSIDEROS.

(mee-thoh-sid-DEER-os)

Myrtaceae. Odd shrubs and trees of New Zealand with showy flowers in white or red; very ornamental; (IX).

—**florida.** METR-4. 40¢
Will climb high trees; fls orange-red; beautiful creeper; will also creep over exposed clay banks.

—**tomentosa.** METR-14. 30¢
New Zealand tree to 50 ft; nice dark foliage; masses of crimson fls; blooms very young; (X).

MEUM.

Umbelliferae. Perennial tufted aromatic plants.

—**athamanticum.** MEUM-5. 50¢
2 ft; white to pink fls, compound terminal umbels; frs ornamental.

MIBORA.

—**verna.** MIRO-1. 50¢
A rare tiny flowering grass for the RG; carpeting; HHBb.

MICHELIA.

(my-KEE-le-ah)

Magnoliaceae. Trees and shrubs native of Asia; much like Magnolias; (VIII).

—**Cathcartii.** MICH-1. 35¢
—**Champaca.** MICH-3. 30¢
Yellow or orange flowers; very fragrant; evergreen tree; (IX).

—**compressa.** MICH-2. 40¢
(Magnolia c.) Ev tr to 40 ft; yellow, fragrant fls, 1" ac; Japan. Oz. 80¢.

—**repens.** MICH-10. 35¢

MICRAMPELIS: see *Echinocystis*.

MICROLEPIA.

(my-kroh-LEE-pah)

Polypodiaceae. Graceful GH trop. Ferns. —**speluncae.** MICF-4. 50¢

MICROMYRTUS.

—**drummondii.** MICM-7. 50¢
—**hudsoni.** MICM-13. 50¢
—**hymenomena.** MICM-17. 50¢
—**rosea.** MICM129. 50¢

MICROMERIA. (mye-kroh-MEER-ee-uh)

Labiatae. Perennials, usually trailing; RG.

—rupestris. MICA-20. 40¢

Prostrate; white fls spotted lavender; in many-flowered clusters; HP.

MICROSORIUM.**—diversifolius.** MICS-8. 40¢

A nice New Zealand fern.

MIGNONETTE

(Reseda.) Resedaceae. Mignonette belongs to the genus Reseda of which there are 3 or 4 species with *R. odorata* the common Mignonette. They are noted for their fragrance; are tender annuals and when started indoors are best handled in pots as they do not transplant easily; thrive in a cool, moderately rich soil, in partial shade; in GH grow in the cool part at 48 degrees F.

RESEDA ODORATA: They comes in many varieties; sow $\frac{1}{4}$ " deep in pans, during March; cold house, or out doors in April and May; for early fls they can be started in Aug. for GH growing.

—Allen's Defiance. MIG-1A. 20¢

Compact; florets immense sized; fragrant.

—Machet Giant. MIG-1M. 20¢

Pyramidal growth; very nice; 1 ft.

—Golden Goliath. MIG-1MG. 20¢

Golden yellow fls; 1 ft.

—New York Market. MIG-1MY. 20¢

Large spikes; fine texture; forces. Oz.

—Red Goliath. MIG-1MR. 20¢

Large red fls; special; 1 ft; fragrant.

—White Goliath. MIG-1MW. 30¢

Best large white variety.

—Mixed Machets. MIG-1MX. 20¢

Beautiful flat top and large spikes.

—Bismarck. MIG-1B. 20¢

Robust; heavy red spikes.

—Gabielle. MIG-1G. 20¢

Robust; heavy red spikes.

—Giant Pyramidal. MIG-1P. 20¢

Deepest red; perfect form.

—Red Monarch. MIG-1R. 20¢

Brilliant red.

—Victoria. MIG-1V. 20¢

Brilliant red.

—Juteola. MIG-5. 40¢

Yellow Mignonette.

—Blend of All Above. MIG-1X. 20¢**MILIA.** (MIL-la)

Mexican Star. Liliaceae. One nice bulbous plant hardy in the (IV).

—biflora.

BULBS: Doz. 80¢; 100, \$5.00; 1,000 \$35.00.

MILLETTA.

Leguminosae. Trees, shrubs and vines allied to the Wisteria.

—caffra. MILL-1. 30¢

S. Af. tr. to 20 ft; purple fls in erect panicles.

—oblata. MILL-2. 40¢

South Rhodesian Tree Wisteria; (X).

MIMOSA. (mi-MO-sah)

Sensitive Plant. Leguminosae, They are

mainly tropical subjects; some are GH plants

in the North.

—pudica. MIMO-7. 25¢

Sensitive Plant. Lavender fls; grow as a

TA; (VIII); leaves close quickly when

touched; sow Feb. or March at about 65

degrees Fah. Oz. \$1.00.

—Speggozzinii. MIMO-11. 35¢

Shrub; rose-purple fls heads; (VI).

MIMULUS.

(MIM-yew-lus)

Monkey-Flower. Scrophulariaceae. These

are mostly native of NW America; found in

wet places; very showy; seed can be started

indoors or sown direct.

—cardinalis, Mixed. MIM-9. 25¢

Scarlet and yellow fls; 1 ft; (IX); per.

—cupreus Hybrids. MIM-10H. 25¢Large flowered Chilean; much like *M.**tigrinus*.**—Red Emperor.** MIM-15R. 35¢

—moschatus. MIM-23. 35¢

Musk Plant. Spreading HP; pale yellow

3/4 inch long; Montana.

—ringens. MIM-30. 30¢Allegheny *M.* 4 ft; fls vary from blue

to pink and white; (II).

—Whitcroft Scarlet. MIM-15W. 30¢

The neatest and brightest of the genus;

3"; HP.

—tiginus, Mixed. MIM-32X. 25¢

Large flowered hybrids.

—Fine Spotted & Tigered. MIM-32T. 25¢**—Mixed.** MIM-X. 20¢**MIMUSOPS.** (mi-MEU-sops)

Sapotaceae. Milky-juiced thick-leaved ev.

gr trees of the tropics; ornamental and in-

teresting.

—Elengi. MIMP-8. 50¢

Spanish Cherry. Tr to 30 ft; E. Indies.

Oz 95¢.

MINA: see IPOMOEA and QUAMOCLIT.

MIRABILIS

Four O'Clocks, Marvel of Peru. Nyctag-

inaceae. Annuals and perennials, all of which

are tender and grown as tender annuals in

the North. The seeds are best sown where

they are to grow; the roots can be dug up in

the fall and wintered over like Dahlias; C-7.

They can also be started indoors in March;

grown on in pots and set out in May. (my-

RAB-lis).

—Jalapa. MIRA-6X. 20¢

Four O'Clocks Red, yellow and white;

3 ft; TP grow as TA. Oz. 35¢.

—Dwarf Mixed. MIRA-6DX. 20¢

A dwarf compact type; 2 ft.

—Dwarf Variegated. MIRA-6VX. 20¢

Variegated leaves; 2 ft.

—longifolia White. MIRA-7W. 25¢

3 ft; TP grow as TA.

—Violet. MIRA-7V. 20¢**—Mixed.** MIRA-7X. 20¢**—multiflora.** MIRA-8. 25¢**—uniflora.** MIRA-10. 25¢

Bright rose; showy and unusual; free

blooming.

—Mixed Mirabilis. MIRA-X. 20¢**MISCANTHUS.** (mis-KAN-thus)

Eulalia. Gramineae. Tall ornamental

grasses with awned spiklets in large silky ter-

minal panicles; have a striking effect.

—sinensis. MISC-2. 25¢

(Eulalia japonica) To 10 ft; panicles 2 ft

long; hardy in (IV).

—zebrinus. MISC-2Z. 35¢

Zebra-Grass. Leaves banded; ornamental

grass; 10 ft; (IV). 1/8 oz. 80¢.

MITCHELLA. (mit-CHEL-lah).

Rubiaceae. One N. Amer. evergreen plant

good in the RG or for ground cover under

trees.

—repens. MITC-2. 40¢

MUSA-BANANA

Banana. Musaceae. They are mainly indoor subjects in N; (IX); fresh seed usually about 25 seeds to oz; bury seed in moist peat or saw dust, in hot-house; germ. in 3-4 weeks or even longer to several months; nick seed and soak 24 hours in warm water; warmth and moisture essential to germ; fresh seed about Feb.

- Arnoldiana.** **MUSA-1.** 50¢
15 ft; (X); C-45. 100 seeds \$4.50.
- coccinea chinensis.** **MUSA-3.** 75¢
(Coccinea chinensis) Dwarf China ornamental banana with branches only 5 ft; ornamental red fls sheaths; fresh seed Oct.
- Ensaia.** **MUSA-5.** 75¢
Abyssinian Banana. (X); 40 ft; popular tub plant; about 25 seeds to oz; bury seed in moist peat or sawdust, in hot-house; germ. in 3-4 weeks or even longer to several months; nick seed and soak 24 hrs in warm water; warmth and moisture essential to germ; fresh seed about Feb.
- paradisica v. sapientum.** **MUSA-9S.** 50¢
Plantain. Atall ornamental Himalayan wild Plantain; 30 ft; yellow fls; fr edible out of hand.
- rosacea.** **MUSA-12.** 75¢
8 ft; not edible; India; (X). 100 sd \$4.00.

MUSCARI. (mus-KAY-ry)

Grape Hyacinths. Liliaceae. Spring flowering bulbs with urn-shaped nodding blooms in racemes or spikes; they are easily grown, both from seed and bulbs; grow them in mass plantings at edge of borders; see Fall Bulb List for bulbs.

- album.** **MUSC-1.** 25¢
- azureum.** **HYAC-2.** 25¢
(Hyacinthus) Flowers in erect racemes; 1 ft; HP.
- comosum.** **MUSC-3.** 35¢
Blue or violet fls; 1 ft; HP.
- latifolium.** **MUSC-8.** 35¢
Blue fls; 1 ft; very showy; HBB.
- macrocarpum.** **MUSC-9.** 50¢
Unusual in having many yellow fls; 3".
- paradoxum.** **MUSC-16.** 30¢
Blue-black fls in dense racemes; 9"; Caucasus; HBB.
- racemosum.** **MUSC-19.** 50¢
- Mixed.** **MUSC-X.** 25¢

MUSSAENDA.

- glabra.** **MUSS-10.** 50¢
A pretty Himalayan climber; large white leaf-like lobes in great profusion; TP.
- Roxburghii.** **MUSS-12.** 50¢
Small tree with pretty orange fls; large white leaf-like lobes; TP.

MYOPORUM. (mye-OP-or-um)

Myoporaceae. Australian plants, fairly hardy there and useful for dwarf windbreaks, hedges, sand binders and specimen shrubs. There are some real gems in the genus.

- Desertii.** **MYOP-7.** 50¢
- debile.** **MYOP-2.** 50¢
Nice plant for RG or green cover in frost free areas; 12"; pink fls.
- insulare.** **MYOP-7.** 50¢
Australian shr or tr to 30 ft; fls 1/4" ac, white with purple spots; fr. purplish blue.
- laetum.** **MYOP-11.** 50¢
Robust shrub to 25 ft; thick shining green leaves with translucent oil dots making small windows thru leaf; drought resistant; good wind-break or tub plant; purple berries; fls white with purple lines; (VIII); NZ.
- montanum.** **MYOP-15.** 50¢

5-12 ft; excellent for arid conditions; or hedges; purple berries; W. A. N. S. W.; XI.
—**serratum.** **MYOP-18.** 50¢

Grown in the GH in the North; (IX).

MYOSOTIDIUM. (my-oh-so-TID-ee-um)

Boraginaceae. A single perennial native of Chatham Isles, N. Z.; azure-blue fls in dense cymes to 6" across; 2-3 ft; fresh seed.

- hertensis.** **MYOT-3.** 50¢
The leaves are large and attractive, deep green and glossy, nearly as large as Rhu-barb. The fls, 2 ft. high, are in heads 4-6" across bright blue. The soil must be mellow and never dried out; semi-shade; it want stand below 20 degrees F; seed very scarce

MYOSOTIS

Forget-Me-Not. Boraginaceae. Small annuals, biennials and perennials with many small blue, rose or white fls in terminal racemes. They thrive in a cool moist partially shaded place, blooming the second year unless started early; following hybrids C-31.

For GH growing sow mid-Aug; will flower in late Nov; they are good in corsages and small bouquets.

HYBRIDS: These are the highly improved forms; start indoors early for good sized plants.

- A. Fischer.** **MYOS-1A.** 25¢
Deep blue, large fls; very choice; 8".
- Blue Ball.** **MYOS-1B.** 25¢
Deep indigo-blue; compact ball-shaped plants; 10".
- Blue Bird.** **MYOS-1D.** 25¢
A large flowered variety in dark blue.
- Blue Eyes.** **MYOS-1E.** 25¢
Pretty bright blue with white eye.
- 1/4 Oz. \$1.00.
- Gerda Seager.** **MYOS-1S.** 25¢
Blooms 8-10 days earlier; pretty blue.
- Marga Seager.** **MYOS-1R.** 25¢
Excellent pot plant for forcing; large blue flowers.
- Messidor.** **MYOS-1M.** 25¢
A rich blue color.
- Star of Love.** **MYOS-1T.** 25¢
Skv-blue; nice pot plant; floriferous.
- Sylvio.** **MYOS-1W.** 25¢
A pure white form.
- Victoria.** **MYOS-1V.** 25¢
Dwarf; dark royal blue. 1/8 oz. 75¢.
- Above Mixed.** **MYOS-1X.** 25¢

OTHER SPECIES:

- alpestris.** **MYOS-4B.** 40¢
(M. rupicola) Pure blue form, similar to M. alpestrica; HP.
- arvensis.** **MYOS-2.** 25¢
White and blue fls; best for naturalizing; 18"; HA or HB.
- dissitiflora caerulea.** **MYOS-3C.** 25¢
Fine blue; low habit.
- Scorpioides semperifloren.** **MYOS-13S.** 25¢
Dwarf form; 6"; azure-blue; HP.
- Blue Bird.** **MYOS-16B.** 35¢
LLarge dark blue flowers. 1/4 Oz. 80¢.
- perfecta.** **MYOS-16P.** 35¢
Large blue fls blooming in 8 weeks. 1/4 Oz. 80¢.
- sylvatica.** **MYOS-18B.** 50¢
(oblongata, alpina) HHA or Bi; 2 ft; deep blue fls; winter flowering type.

MYRICA. (MYE-rik-uh)

Myricaceae. Ornamental shrubs or small trees; unisexual fls in catkins; native of north-

ern hemisphere.

—**pensylvanica.** **MYRI-6. 30¢**
(*M. caroliniensis*) Bayberry. 8 ft. sh.
bearing clusters of waxy bluish white
aromatic berries in late July to over wint-
er; poor soils.

MYRICARIA. (*mye-rik-KAY-ree-uh*)

—**germanica.** **MYRK-1. 40¢**
False-tamarisk. Deciduous woody plant;
6 ft; fls in terminal bracted racemes; HSH.

MYRRHIS. (*MIHR-iss*)

—**odora.** **MYRR-1. 35¢**
Sweet Cicely. Grown for its sweet
scented leaves; sow seed when ripe for
best results; HP.

MYRTILLOCACTUS.

Cactaceae. Short-trunked and tree-like
Cacti; Central America.

—**geometrigans.** **MYRC-4. 50¢**
To 15 ft; fls 1" broad; fruits edible.

MYRTUS. (*MERT-us*)

—**bulata.** **MYRT-3. 50¢**

Striking evergreen shrub with reddish
brown crinkled leaves intermingled in
season with beautiful starry creamy white
fls; branches reddish violet; 10 ft; (V); N.Z.

—**communis.** **MYRT-4. 30¢**

To 10 ft; sow in spring; GH in pits; (IX);
it grows slowly. c.s. Oz. 75¢; lb. \$6.00.

—**Ralphii.** **MYRT-12. 50¢**

Erect branching shrub with slightly bron-
zy leaves; white starry fls and dark red
berries; 10 ft; IX; N. Z.

Naegelia: see **Smithiantha.**

NANANTHUS.

—**Malherbei.** **NANA-8. 50¢**
—**Villetii.** **NANA-23. 50¢**

NANDINA. (*nan-DYE-nuh*)

Berberidaceae. Showy evergreen shrub;
China; hardy in (V) zone; showy as GH
plants.

Sow seed late in fall in cold frame; germi-
nates next August when seedlings should
be shaded; leave in beds next summer to
be lined out in following spring.

—**domestica.** **NAND-1. 30¢**

Nice evergreen shrub for the (V) zone or
a fine pot-plant in the N; 8 ft; berries red
be lined out in following Spring; lime free
soil; GH.

—**alba.** **NAND-1A. 50¢**
Oz. 75¢; lb. \$4.00.

NASTURTIIUMS

(*Tropaeolum*) Tropaeolaceae. This is a
much confused classification with Water
Cress, *Nasturtium officinale* being the only
listed species. The flowers listed in the trade
and also commonly known as Nasturtiums
belongs to the Tropaeolaceae Family, with
the genus *Tropaeolum* being the only mem-
ber. Grow them as tender annuals giving
them a warm sunny position, planting them
direct; they make good fillers in Tulip beds.

SEMI-DOUBLE GLEAM: A popular type
with double and semi-double fls; 18"; good
for cutting. Oz. 30¢; ¼ lb. \$80.

—**Apricot Gleam.** **NAST-1P. 20¢**

Bright light apricot.

—**Crimson Glow.** **NAST-1C. 20¢**

A deep glowing golden orange.

—**Fiesta.** **NAST-1T. 20¢**

Golden orange, blotched scarlet.

—**Fire.** **NAST-1F. 20¢**

All-double bright scarlet.

—**Golden Gleam.** **NAST-1G. 20¢**

A lovely golden yellow.

—**Loveliness.** **NAST-1V. 20¢**

Bright salmon-cerise.

—**Indian Chief.** **NAST-1N. 20¢**

A new double, sweet scented, dark lvs.

Bright scarlet; good.

—**Moon.** **NAST-1M. 20¢**

Semi-bouble yellow.

—**Orange Gleam.** **NAST-1A. 20¢**

The best orange. variety.

—**Salmon Gleam.** **NAST-1S. 20¢**

Lovely rich salmon.

—**Scarlet Gleam.** **NAST-1L. 20¢**

Fine rich red.

—**Gleam Mixed.** **NAST-1X. 15¢**

GLOBE TYPE: Giant double flowers; 1

ft. plants; excellent bedder. Oz. 30¢.

—**Apricot Queen.** **NAST-2AQ. 20¢**

—**Delightful.** **NAST-2D. 20¢**

—**Black Beauty.** **NAST-2B. 20¢**

Compact, very dark lvs; double fls, deep
scarlet.

—**Fiesta.** **NAST-2F. 20¢**

Soft salmon-cerise.

—**Garnet Gem.** **NAST-2A. 20¢**

A deep crimson.

—**Golden Globe.** **NAST-2G. 20¢**

Excellent golden yellow.

—**Golden Rose Emperor.** **NAST-2R. 25¢**

Lovely rose with dark leaves.

—**Mahogany.** **NAST-2H. 25¢**

A deep mahogany color; showy.

—**Orange Gem.** **NAST-2N. 20¢**

—**Scarlet Emperor.** **NAST-2E. 20¢**

Fine scarlet and dark leaves.

—**Scarlet Globe.** **NAST-2S. 20¢**

A popular scarlet variety.

—**Globe Blend.** **NAST-2X. 15¢**

DWARF or TOM THUMB TYPE: All have

single flowers; 1 ft high; will withstand
more adverse conditions.

—**Yellow King.** **NAST-2Y. 30¢**

A new yellow color; fls are clear banana-
yellow; dark lvs; plants dwarf and com-
pact. Oz. 40¢.

—**Empress of India.** **NAST-3E. 20¢**

Velvety dark scarlet with dark leaves.

—**Faltham Beauty.** **NAST-3F. 20¢**

A brilliant scarlet.

—**Golden King.** **NAST-3G. 20¢**

A rich golden yellow.

—**Fireball.** **NAST-3B. 20¢**

Compact; dark leaves; bright scarlet flow-
ers well above the foliage.

—**King of the Tom Thumbs.** **NAST-3K. 20¢**

Bright scarlet; dark leaves.

—**King Theodore.** **NAST-3T. 20¢**

Dark red; dark foliage.

—**Lady Bird.** **NAST-3L. 20¢**

Lovely rich yellow, scarlet spotted; dark
foliage.

—**Pisang.** **NAST-3P. 25¢**

Flowers a fine banana-yellow color; dark
leaves; dwarf and compact; NEW.

—**Ruby King.** **NAST-3R. 20¢**

Ruby-red; dark foliage.

—**Vesuvius.** **NAST-3V. 20¢**

Brilliant salmon-rose; dark foliage.

—**Blend of Above.** **NAST-3X. 15¢**

TALL or CLIMBING TYPE. To 3 ft; they

should be used when wanted for salads, etc; requires support. Oz. 40¢; lb. \$3.00.

- Cameo... **NAST-4C. 20¢**
Is in several blends of color.
- Dunnett's Orange. **NAST-4D. 20¢**
One of the best orange varieties.
- King Theodore. **NAST-4K. 20¢**
Dark foliage; dark red flowers.
- Madam Gunter. **NAST-4G. 30¢**
Striped and blotched colors; dark foliage; a showy variety.
- Pearl. **NAST-4P. 20¢**
Lovely cream-white.
- Prince Henry. **NAST-4H. 20¢**
Clear yellow with red spots.
- Salmon rose. **NAST-4SR. 20¢**
- Von Molike. **NAST-4V. 20¢**
A lovely rosy blue.
- Zanderi nigrum. **NAST-4Z. 30¢**
A deep crimson flower and dark foliage; very showy.
- Tall Blend. **NAST-4X. 15¢**

LOBBIANUM: (N. peltophorium) Round

leaves; single flowers; climbing.

- Spitfire. **NAST-5S. 20¢**
Intense red variety; dark leaves.
- Lucifer. **NAST-5L. 20¢**
Deep scarlet fls; dark leaves.
- Beauty of Malvern. **NAST-3M. 20¢**
- Mixed. **NAST-5X. 15¢**
- officinale. **NAST-6. 35¢**
This is true Water Cress; biennial; growing running water and very popular herb. It is listed under many different name, this being the correct botanical name.
- pergrinum. **TROP-7. 20¢**
Canary-Bird-Vine. See Tropaeolum.

NELUMBUM.

- Nelumbo. **NELU-5. \$1.00**

NEMESIA. (nem-MEESH-ee-ah)

Scrophulariaceae. Very showy tubular fls in terminal racemes; easily grown as HA; start indoors in Apr and set out in late May; space 5" apart; for early sp. flowering sow in July or Aug or in Jan for May bloom growing in pots in cool house.

CARNIVAL. **NEME-6C. 35¢**

A new dwarf compact strain with very large fls in a very rich color mixture. 8". ¼ Oz. \$1.00.

- Triumph. **NEME-4T. 30¢**
Mixed rich colors range including red, orange-yellow and blue; very free flowering and low habit. ¼ Oz. \$1.00.
- strumosa Orange King. **NEME-10K. 20¢**
Compact; large orange fls; TA; C-16.
- Aurora. **NEME-10A. 20¢**
Bicolor, carmine and white.
- Julietta. **NEMO-10TJ. 25¢**
A new tetra variety from France.
- Suttonii. **NEME-10S. 20¢**
Dark scarlet flowers.
- Orange. **NEME-10SG. 20¢**
- Rose. **NEME-10SZ. 25¢**
- Orange Prince. **NEME-10P. 20¢**
- Blue Gem. **NEME-10B. 20¢**
Compact large flowered blue.
- Twilight. **NEME-10T. 25¢**
Compact large flowered blue and white.
- New Blue. **NEME-10B. 20¢**
- Blend of Above. **NEME-10X. 20¢**
- vericolor Fire King. **NEME-11K. 20¢**
Compact; dwarf; scarlet-crimson.

—Mixed.

—Nemesia All Mixed.

NEME-11X. 20¢

NEME-X. 20¢

NEMOPHILA.

(nee-MOFF-il-ah)

Hydrophyllaceae. Low growing annuals easily grown; very showy for continuous spring and summer bloom; sow direct to soil; DW; C-2.

**NEMOPHILA—Baby Blue Eyes**

- maculata. **NEMO-2. 20¢**
Five-Spot. Deep purple spot on tip of each lobe; HHA.
- Menziesii. v. crambeoides. **NEMO-3C. 20¢**
Baby-Blue-Eyes. (insignis) Blue; HHA. Germinates best in dark.
- White. **NEMO-3W. 20¢**
- atomaria. **NEMO-3A. 20¢**
Paler blue, dotted purple or black.
- Holborn Blue Bell. **NEMO-3H. 20¢**
- discoidalis. **NEMO-3D. 20¢**
Bluish purple centers; white on edges.
- phacelioides. **NEMO-7. 25¢**
2 ft; blue fls with white centers; bell-shaped; W. North AMERICA.
- Mixed. **NEMO-3X. 20¢**
- Gown \$1.00.
- All Mixed. **NEMO-X. 20¢**

NEOLLOYDIA.

(WS, CG) Small clump-forming plants; very pretty.

- Begunii. **NEOL-3 75¢**
Beautiful; white spines, tipped black.
- cradiflora. **NEOL-8. 60¢**
Violet fls; dark tipped spines

NEPETA.

(NEP-ee-tah)

Catnip. Labiatae. Aromatic annuals and perennials with white and blue flowers in whorls, clusters or spikes. Some species are very pretty and can be grown in shade; easily grown and best sown where they are to grow; dislikes lime.

- Cataria. **NEPE-3. 20¢**
Catnip. Whitish or pale purple fls; 1½ ft; used for Catnip tea; dry lvs for cats; HP. Oz. \$1.00.
- citriodora. **NEPE-3C. 25¢**
- hederacea. **NEPE-6. Plants**
Ground Ivy. (Glechoma) An excellent ground cover for semi shady banks or RG; light blue fls early Spring. **PLANTS: Each 45¢; 3-90¢; 25- \$8.00.**
- Mussinii. **NEPE-10. 25¢**
Persian Ground Ivy. Lavender-blue fls in whorled spikes; good grown cover; cut old fls off; 2 ft; (IV); very pretty; will fls in fall if cut back. **Oz. \$2.50**
- nuda. **NEPE-15. 50¢**
- specata. **NEPE-20. 50¢**
A delightful ornamental from the Himal-

ayan Mts; rare and difficult to obtain.

NEPENTHES.

Pitcher Plant. Nepenthaceae. Pots or baskets in very warm GH; start seeds in closed container at 60 deg. F or above.

—Khasiana. NEPS-22. 75¢

NEPHELIUM: see Litchi and Euphorbia

NEPHROLEPSIS.

(Sword Fern)

—cordifolia. (N. tuberosa)

NEPF-7. 50¢

—pumosa.

NEPF-7P. 50¢

—exaltata.

NEPF-11. 50¢

NERIUM.

(NEER-ee-um)

—Oleander.

NEAE-8. 25¢

Oleander. Oz. 50¢; 1b. \$2.00.

NERTERA

(NERT-er-uh)

Rubiaceae. One species suitable for ground cover; N. Z., Tas., S. America.

—granadensis.

NERT-1. 40¢

(N. depressa) Bead Plant. Orange fruits; ornamental; good house plant; sown thinly from Feb-Apr; 60 F; GH in North.

NICANDRA.

(nye-KAND-ruh)

Solanaceae. Apple of Peru. Vigorous border plants needing plenty of room; the seed pods can be dried.

—Phyalodes.

NICA-1. 25¢

Shoo-Fly Plant. Sky-blue bells, 1" ac; 3 ft; HA; sow March indoors at 60-65 F; germ. 12 days; flowers in 3-4 months; 3 ft.

NICOTIANA

Flowering Tobacco. (nik-oh-she-AY-nuh) Solanaceae. Large tender annual or perennial plants with long tubular, fragrant fls in white, yellow, greenish or purple, in terminal panicles or racemes; many night blooming; easily grown; popular; LW; C-9.

The N. tobacum varieties, the commercial types, must be germinated in the light. N. arvensis and sativa best germinated in the dark.

—affinis. Mixed.

NICO-3. 30¢

—alata gr. fl. Daylight.

NICO-3D. 25¢

(affinis) Jasmine Tobacco. Pure white fls remaining open during day light. ½ Oz. 60¢.

—Daylight Sensation.

NICO-3DX. 25¢

New color range; excellent; compact habit. ½ Oz. 75¢.

—French Hybrids.

NICO-3F. 20¢

—Sweet Scented White.

NICO-3W. 20¢

—Hybrids.

NICO-3H. 20¢

—Sanderæ, Crimson King.

NICO-30K. 20¢

Salver-form fls; crimson; hyb'd: 3 ft; TA.

—glaucia.

NICO-15. 50¢

Tree Tobacco. Tree-like, 20 ft; yellow salverform fls, 1½" long; S. America.

—suavelens.

NICO-31. 20¢

White nodding flowers; fragrant; 2 ft; TA. pretty for pots; sow seed indoors March at 60 F.

—sylvestris.

NICO-33. 20¢

—Mixed.

NICO-X. 20¢

NIEREMBERGIA.

(nee-rem-BERG-ee-uh)

Sonaceae. Cup-flower. Herbaceous an. and per. that are hardy up to zone (V) or (IV); they are showy garden subjects.

—hippomonica.

NIER-7. 25¢

Large blue fls all summer long; C-22.

—Purple Robe.

NIER-7P. 25¢

Fine purple variety.

NIGELLA

Fennel-flower. Ranunculaceae. C-2.

—damascena, Miss Jekyll. NIG-3J. 20¢

Love-in-a-Mist. Double indigo-blue fls; 18"; germinate best in absolute darkness.

—Sky-blue.

MIG-3SB. 25¢

Oz. 65¢; 4 oz. \$2.00.

—White.

MIG-3W. 25¢

Oz. 65¢; 4 oz. \$2.00.

—Mixed.

MIG-3X. 25¢

Oz. 60¢; 4 oz. \$1.75.

—hispanica.

NIG-6. 20¢

—Miss Jekyll.

NIG-6J. 20¢

Excellent variety with large white flowers; HHA.

—Miss Jekyll

NIG-6D. 25¢

Double indigo-blue flowers.

—Miss Jekyll.

NIG-6S. 25¢

Double sky-blue flowers.

NOLANA.

(nol-LAY-nuh)

Nolanaceae. Perennials grown as annuals with showy blue tubular fls; they make good basket plants, or in RG or border; sun; Chile, Peru.

—atroplicifolia alba.

NOLA-1. 25¢

White flowers, 2" across; 1 ft; good basket or window box plant. ½ Oz. 40¢.

NIPHOBOLUS: see Cyclophorus Lingua.

NOLINA.

(NOLT-ee-uh)

Liliaceae. A desert plant producing a tree-like trunk; small whitish fls and stiff linear lvs; sow direct during Mar or Apr; sun.

—lindeheimeri.

NOLI-2. 25¢

Ribbon Grass, Bunch Grass. HP; 2-4 ft; dull white fls in terminal panicles; found in limestone soils

—longifolia.

NOLI-3. 25¢

(Dasyliron) Desert plant; 10 ft.

NOMOCHARIS.

—agerta.

NOMO-2. 25¢

NOTHOFAGUS.

(noth-oh-FAY-gus)

Fagaceae. Beech-like sh and tr found in S. Hemisphere; hardy only in (X) zone; it is very likely, the seed should be planted as fresh as possible; plant in good leaf mould.

To 100 ft; (IX); N. Z.; reddish autumn tints in foliage.

—fusca.

NOTF-10. 40¢

—Memziesii.

NOTF-11. 50¢

Tr to 80 ft; N. Z.

NOTHOLIRION.

Liliaceae. Asiatic plants similar to Lilium.

—macrophyllum.

NOTP-10. 40¢

1 ft; deep rose fls; rare; Himalayas

NOTHOPANAX.

(noth-oh-PAY-nax)

Araliaceae. Evergreen trees and shrubs from the S. Pacific; those offered are ornamental; (IX).

—arborescens.

NOTH-3. 35¢

N. Z. tree to 20 ft; purplish black fls in compound umbels; (IX).

NOTOCACTUS.

(WS, CG) Very pretty; free flowering; easy from seed..

—apricus.

NOTO-3. 50¢

Yellow fls 1¼" long; 2" diam; Uruguay.

—mammosulus.

NOTO-11. 60¢

Strong, robust grower; yellow flowers.

—pampeanus.

NOTO-17. 40¢

Globose; 4"; yellow fls; S. America

NUTTALLIA: see *Osmaronia*.

NUYTSIA.

Has a root-parasitic nature same as in Mistletoe. Sow in sandy soil where Banksia are established, its preferred host; sow Car-rats near the Banksias and sow the Nuytsia seed among them.

—**floribunda.** **NUYT-10.** 50¢
25 ft; most glorious of whole Australian flora; fls in large clusters of glowing gold.

NYMANIA.

—**capensis.** **NYMA-5.** 50¢
Klapperbos. Pink seed pods; 6 ft; S. Af.

OCHNA.

Ochnaceae. Trop. trs and shs with leathery lvs; yellow fls followed by fruits; (IZ).
—**multiflora.** **OCHN-5.** 40¢

Sh to 5 ft; can be grown as GH pot plant in well drained fibrous loam; 140 sds to oz.

OCIMUM.

(OSS-im-um)

BASIL. Labiatae. Aromatic tender annuals grown in the herb garden for their value as seasoning and fragrance. Start indoor in North for early crop. Cut leaves just before flowers are in full bloom for drying for winter use.

O. BASILICUM: Basil..

—**Lettuce-Leaf. Green.** **OCIM-1L.** 20¢
Large tender leaves; 2 ft; TA. Oz. 45¢;
lb. \$2.00.

—**Purple Bush.** **OCIM-1P.** 20¢
Oz. 90¢; lb. \$8.00.

—**Red Bush.** **OCIM-1R.** 30¢

—**Large Green Bush.** **OCIMIGG.** 30¢

—**Green Bush.** **OCIM-1G.** 20¢
Oz. 50¢ lb. \$4.00.

—**sanctum.** **OCIM-6.** 50¢
Holy Basil. 2 ft; considered by the Hindus as most sacred plant.

ODONTOPHORUS.

—**Mariothii.** **ODOT-5.** 50¢

OENOTHERA

Evening Primrose. Onagraceae. A very large and extended group of annuals, biennials, all sun loving, dry land plants easily grown from seed. Common color is yellow; few red and pinks; most are best started indoors in March and set out in May; (ee-noth-THEE-rah).

—**biennis.** **OENO-7.** 30¢
Common Evening Primrose. HB to 6 ft; fls 1-2" ac; found in waste places.

—**flava.** **OENO-25.** 30¢
A neat variety with pretty lemon-yellow fls; HP.

—**fruticosa.** **OENO-26.** 20¢
Showy yellow fls, 2" ac; dry land; 1-3 ft; HP; C-23.

—**Youngii.** **OENO-26Y.** 25¢
An extra fine golden yellow variety. 15"; June-Aug; HP. ½ Oz. \$1.25.

—**Hookeri.** **OENO-28.** 40¢

—**Jamiesii.** **OENO-29.** 30¢
Yellow fls, 1" ac; 4 attractive petals; very good; (VIII); HP; very sweet in evening; 8 ft; good; HB.

—**Lamarckiana.** **OENO-33.** 20¢
Yellow fls 2" ac; 3 ft; a noble plant for groups near drivs or walks; HB.

—**longipedicellata.** **ORNO-35.** 35¢

—**missouriensis.** **OENO-40.** 20¢

Yellow fls 4-6" ac; 1 ft; HP. ¼ Oz. \$1.00.

—**odorata.** **OENO-43.** 20¢

Yellow fragrant fls fading to a reddish color; 4 ft; HA.

—**rhombipetala.** **OENO-51.** 20¢

Yellow fls, 2" ac; 4 ft; HB.

—**serrulata.** **OENO-58.** 40¢

(Meriolix serrulata) Yellow fls, 2" ac; erect HP or HB; Canada to Texas; (II).....

—**speciosa rosea.** **OENO-59.** 25¢

White turning to rose; erect; fls 3" ac; showy; 1 ft; July-Sept; HP. ½ Oz. \$1.25.

—**spinulosa.** **OENO-57.** 40¢

(Meriolix) Larger fls than O. serrulata; yellow, 3" ac; (III).

—**tetraptera.** **OENO-70.** 35¢

Pink Evening Primrose. (Hartmannia) HA to 20 inches; whitish fls turning to rose; showy; Texas.

—**trichocalyx.** **OENO-73.** 40¢

—**triloba.** **OENO-74.** 30¢

Stemless; yellow fls, 3" ac; 4 ft; (V); HP.

—**Mixed Oenothera.** **OENO-X.** 20¢

OLEA.

(OH-lee-ah)

Oleaceae. Olive. Showy ev. trs and shs; they are hardy in the South.

—**europaea.** **OLEA-5.** 30¢

Olive. 25 ft; (IX); 80 seeds to ounce.

Oz. 50¢; lb. \$1.25.

OLDENBERGIA.

(old-den-BERG-ee-uh)

—**arbuscula.** **OLD-1.** 40¢

Large decorative lvs; 7 ft; S. Af. shrub.

OLEARIA.

(oh-lee-AY-ree-uh)

Daisy Tree, Compositae. Contains a number of very fine shrubs and near trees, native of Australia, and closely allied to the Perennial Aster. Long flowering period; the smaller growing species make fine pot-plants.

—**Allionii.** **OLER-3.** 40¢

A rare tree daisy from N. Z.; 1-3 ft; white fls; (X).

—**arborescens.** **OLER-4.** 35¢

Shrub; 12 ft; N. Z.

—**chathamica.** **OLER-8.** 30;

White-purple fls; 5 ft; (IX); N. Z.

—**Cheesemanii.** **OLER-12.** 40¢

—**furfuracea.** **OLER-10.** 50¢

—**Cunninghamii.** **OLER-25.** 25¢

Fls in large branching panicles, ½" ac; sh or tree; 25 ft; N. Z.

—**surfaracea.** **OLER-10.** 25¢

New Zealand Tree Aster.

—**virgata.** **OLER-22.** 35¢

OMPHALODES.

(om-fal-LOH-deez)

Boraginaceae. Navel-wort. Forget-me-not-like plants allied to Lithospermum; moist situations; sun or part.

—**linifolia.** **OMPH-5.** 25¢

(Cynoglossum) White fls, ½" ac; TA.

—**Luciliae.** **OMPH-6.** 50¢

Sky-blue fls; 8 ft; HP.

ONCOBA.

(ON-koh-bah)

—**Routledgei.** **ONCO-5.** 25¢

African tree; many Camellia-like white flowers; yellow centers; (IX).

—**spinosa.** **ONCO-6.** 50¢

Large white flat flowers; 8-10 ft; S. Af;

TSh; (IX).

ONOCLEA.

(on-oh-KLEE-ah)

Polypodiaceae. Attractive ferns hardy in North; border.

—**sensibilis.** **ONOC-2.** 50¢

Sensitive Fern. Sensitive to early frost;

moist places; shade or sun; 9-18 inches.

Plants: 50¢ each; 3, \$1.40. Prepaid.

ONONIS.

(on-NOH-niss)
Rest-Harrow. Leguminosae. They are easily grown and are good plants for the border or rockery. Flowers are either solitary or in racemes.

—**rotundifolia.**

Bright; shrubby; 1½ ft; HP. **ONON-15. 35¢**

—**spinosa.**

Rest-harrow HP; 2 ft; thorny; Herb. **ONON-17. 25¢**

ONOPORDUM.

(on-oh-PORD-um)
Compositae. Thistle-like plants of Old World; flowers in clustered heads, purple or white disks.

—**Acanthium.**

Scotch Thistle. Silver fol; 9 ft; HP. Oz. **ONOP-1. 25¢**

ONOSMA.

(oh-NOZ-mah)
Boragmaceae. Annuals, biennials and perennials with extremely attractive flowers in white, yellow or purple, in one-sided clusters. They do well in sun or part shade; suitable for the border or rockery; easy.

—**stellulatum tauricum.**

Gold Drop. Golden yellow fls; wall plant 8"; HP. **ONOS-8. 25¢**

—**tubiflorum.**

Fls in racemes; Bulgaria; HP. **ONOS-14. 50¢**

ONYCHIUM.

Claw-Fern. Polypodiaceae. Small graceful pot ferns for the GH.

—**auratum.**

ONYC-1. 50¢

OPHIOPOGON.

(off-ee-oh-POH-gon)
Lily Turf. Liliaceae. Turf forming plants with racemes of small whitish flowers and grass-like leaves, often striped and spotted with white or yellow; useful for turf or border edgings that require no clipping; not extra hardy in the North; sun or shade; (V).

—**Clarkei.**

OPHI-4. 30¢

—**intermedius.**

50 seeds to ounce. **OPHI-6. 25¢**

OPLOPANAX.

Araliaceae. (Echinopanax) Prickly sh of north-western America.

—**horridum.**

Devil's CClub. 12 ft; lvs 10" ac; scarlet fruits; Alaska. **OPLO-4. 40¢**

OPULASTER: see **Physocarpus.**

OPUNTIA.

(oh-PUN-te-ah)
Cactaceae. Prickly Pear. The seed in generally quite large and should be sown separately and well spaced in pot; usually rapid growers thus requiring more spacing so as to disturb while getting a start.

—**compressa.**

(humifusa) Yellow fls, 2-3" ac; (IV); HP. **OPUN-59. 30¢**

—**Mixed Species.**

OPUN-X. 30¢

OREOCEREUS.

(WS, CG) Red fls; soil should have liberal amounts of limestone; full sun.

—**Celsianus.**

Slow growing; long silky hairs. **OREO-5. 40¢**

—**giganteus.**

OREO-5G. 40¢

ORIGANUM.

(oh-RIG-ah-num)
Sweet Marjoram. Perennial grown as an annual; it is a favorite herb in flavoring dressings and meats; best started indoors and finally transplanted in 18" rows and

12" apart; cut for drying just as flower start.

Sow seed in pot or pan; water from below; keep from strong light; space 12"; well known as Sweet Marjoram.

—**vulgare.**

Sow seed in pots or pans; water from below; keep from strong light; space 12 in. **ORIG-7. 25¢**

ORIXA.

Rutaceae. Decid sh; 10 ft; hardy in (IV); Japan.

—**japonica.**

Oz. 60¢; lb. \$3.50. **ORIX-1. 50¢**

ORMOSIA.

Leguminosae. Necklace Tree. Trop. trs with fls usually in terminal panicles; seeds are very ornamental; (XI).

—**monosperma.**

Necklace-tree. (dasycarpa) Large timber tree with blue fls in panicles; W. Indies. 20 seeds per ounce. **ORMO-1. 50¢**

ORNITHOGALUM.

(or-nith-THOG-al-um)
Liliaceae. Bulbous plants with white, yellow or reddish flowers in bracted racemes or corymbs. The tender species are grown as a pot plant in the North.

—**caudatum.**

White flowers with green centers; 3 ft; GH; (X). **ORNI-4. 40¢**

—**Niveum.**

ORNI-10. 40¢

—**Saundersiae**

A very nice S. Af. bulbous plant growing to 3-5 ft; white fls 1" ac; hardy to about VI zone; excellent GH plant. **ORNI-16. 35¢**

—**thyrsoides.**

White fls with yellow centers; strong stems; 12"; S. Af; tender bulbous plant. **ORNI-30. 35¢**

OROBUS vernus: see **Lathyrus vernus.**

OROZYLO.

Bignoniaceae. Tropical trs; rich soil.

—**indicum.**

Ornamental tree to 40 ft; bars curious long flat seed pods, 3 ft long; bell-shaped fls, blue or purplish, 2½" long, 3-4" ac. **OROZ-1. 50¢**

OSBECKIA.

—**White.**

White and pink fls mixed; hardy sh suitable for RG. **OSBE-1. 25¢**

OSCULARIA.

—**caulescens.**

OSCU-4. 50¢

—**deltoides.**

OSCU-8. 50¢

OSMANTHUS.

(oz-MAN-thus)
Oleaceae. Shs and trs with fls in clusters or racemes; followed by fruits; grown under glass or outside in mild regions; seeds usually germinate 2nd year.

—**aurantiacus.**

Similar to fragrans; orange colored fls; very fragrant; China. Oz. \$1.00. **OSMA-4. 50¢**

—**fragrans.**

To 30 ft; white fragrant fls in early spring; popular in GH; China. Oz. 95¢. **OSMA-7. 50¢**

—**ilicifolius.**

(Aquifolium) To 20 ft; white fragrant fls; June-July; Japan; (VII). Oz 95¢. **OSMA-8. 50¢**

OSMARONIA.

(os-mar-ROH-nee-uh)

—**cerasiformis.**

W. N. Amer decid. sh.; very early to fl; little white scented pendent tassels, loved by the bees; fls on female shs; prefers

lime-free soil but not necessary; 10 ft; sow seeds in fall or stratify. (Nuttalia); (IV); Oseberry; 75 seeds to ounce.

OSMUNDA.

(oz-MUN-dah)

—**cinnamomea.****OSMU-1. 50¢**

Cinnamon Fern. Strong grower; not particular as to location; shade or part; 2-4 ft; set top of crown above surface. set top of crown above surface

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**Claytoniana.****OSMU-3. 50¢**

Interrupted Fern. A very bold and attractive species; shade or part; 1½-3 ft. Plants: 50¢ each; 3, \$1.40. Prepaid.

—**regelis.****OSMU-5. 50¢**

Royal Fern. Found in swamps; shade or sunny locations; attractive foliage; 2-4 ft. Plants: 60¢ each; 3, \$1.50. Prepaid.

OSTEOSPERMUM.—**amplecteus.****OSTE-1. 50¢**

Yellow fls; 2 ft; TA.

—**Echlonis.****OSTE-4. 50¢**

Van Slanden's Daisy. (Dimorphotheca) White flowers rays; 2 ft; sub-sh'b; TP; (IX).

—**hyoseroides.****OSTE-8. 50¢**

Orange-yellow; 2 ft; TA.

OSTRYA.

Hop-Hornebeam. Betulaceae. Decid. trees; ornamental; sow seed in fall or stratify.

—**carpinifolia.****OSTR-2. 40¢**

OTHAKE: see *Polypteria Hookeriana*.

OTHONNA.

(oth-ON-nah)

—**carnosa.****OTHO-3. 50¢****OURATEA.**—**littoralis.****OURA-9. 40¢****OXALIS.**

(OX-al-las)

—**corniculata purpurea.****OXAL-11. 30¢**

Creeping perennial; light yellow fls; purple leaves.

—**corniculata atropurpurea.** **OXAL-11A. 30¢**
(tropaeoloides).

OXYDENDRON.

(ox-id-DEN-drum)

Ericaceae. Ornamental deciduous trees hardy to (IV); sow seed in peaty soil only practical way to increase.

—**arboreum.****OXYD-1. 50¢**

Sour-Wood, Sorrel-Tree. Ornamental tr; sow in frame, keep shaded and moist till germinated; (V).

OXPETALUM.

(ox-PET-al-um)

Asclepiadaceae. (Tweedia) S. Amer. native plants and sub-shrubs.

—**caeruleum.****OXYP-1. 25¢**

Charming twining plant; sow seed indoors at 60 F; fls change color; (X); GH in North.

OXYRIA.

Polygonaceae. Low erect perennials especially nice for the rockery.

—**digyna.****OXYR-2. 50¢**

1 ft; many flowers; RG; HP.

OXYSPORA.—**paniculata.****OXYN-10. 50¢**

Pink fls on long racemes; India.

PACHYCEREUS.

(PAK-ec-SEE-ree-us)

Cactaceae. Columnar, tree-like Cacti nat-

ive of Mexico.

—**grandis.****PACC-5. 45¢**—**Tetetzo.****PACC-15. 50¢**

Tree to 45 ft; greenish white fls in clusters, 2½" long.

PACHYSTEGIA.

(pak-iss-STEG-ee-uh)

Compositae. N. Z. shrubs much like *Olearia*; mostly zone (X).

—**insignis v. minor.****PAC-2M. 30¢**

Lovely little sh; gray lvs; large daisy-like fls; heads 3" ac with white rays and yellow disks; ideal for rockery.

PACRATIUM.—**illyricum.****PANC-6. 30¢**

Summer flowering bulbs.

PAEONIA.

(pee-OH-nee-uh) Ranunculaceae. Peony.

The species come true from seed and are interesting subjects where one has room to grow a Peony collection. The seeds are best right after ripening; C-24; best to carry seed bed over for a year; shade during summer and be sure seed is always covered; keep moist.

—**Brownii.****PAEO-4. 50¢**

Charming dwarf with brownish red flower petals; native of our western mountains.

—**cambedassiei.****PAEO-5. 75¢**

April flowering; single pink fls amid green and red leaves; handsome in autumn with scarlet and black seed boxes; 1 ft; fresh seed in October or November.

—**Delavayi.****PEON-10. 50¢**

Sub-sh to 3 ft; fls dark crimson, 2" ac; China; 40 seeds to ounce.

—**lactiflora.****PAEO-15. 50¢**

(albiflora) Most of the garden form be-long here. Lb. \$12.00.

—**peregrina.****PAEO-24. 30¢**

Bright crimson fls. 4" ac; 2 ft; (arietina). C.S. Oz. 50¢; lb. \$4.00.

—**sufruticosa.****PAEO-27. 50¢**

(Moutan) Tree P. Sh to 6 ft; fls red, rose and white; to 12" ac; 100 seeds to ounce; China. Oz. \$1.60; lb. \$16.00.

NOTE: Paeyon seed should be fresh and planted immediately on arrival; this means your order must be placed early and held for the seed.

PAICUM plicatum: see *Sataria plicata*.

PALIURUS.

(pal-ee-YEW-rus)

Rhamnaceae. Ornamental shs and trs fresh; to (V) zone; fls small and in cymes.

—**Spina-Christii.****PALI-5. 30¢**

Christ Thorn, Jerusalem Thorn; (VI). c. s. Oz. 50¢; lb. \$1.50.

PALM SEEDS LISTED

NOTE: Usually Palm seeds are best when fresh; if you need them in any quantity it is always best to book ahead; it will not be necessary to remit with the order.

PANAX.

(PAY-nax)

Ginseng. Grown for its roots; shade; Amer. grown mainly for their roots; stratify seeds for best germination.

—**quinquefolium.****PANA-3. 30¢**

Seed best when fresh; germ about middle of May; plant seeds 1" deep, 3-4 to hill, 1 ft apart both ways or in bed during Sept.

25-50 seed per sq. ft; transplant when 1-2 yrs old; cover with sawdust; shade; about 600 seeds per ounce.

ROOTS: 80¢ each; 3-\$2.25; 25- \$7.00.. Write for larger amounts. Seed \$3.00 per 100; can also supply stratified seed which will germinate quickly.

PANDANUS.

(pan-DAN-us)

Screw-Pine, Pandanaceae. Tropical trs and shs; planted outdoors in S or a good tub plant in the North in its juvenile state; heat and moisture as for Palms; soak seeds 24 hrs. —**furcatus.** PAND-6 50¢

Screw Pine. Beautiful Palm-like tr; medium height; 15 seeds to ounce. 100 seeds \$3.00.

—**odoratissimus.** PAND-9. 90¢
Grown in the GH or hardy in (IX) zone.
(oh-dor-at-TISS-im-us) 100 seeds \$4.00.

PANDIAEA.

—**Species.** PAN-1. 25¢
Seed from South Rhodesia.

PANDIAKA.

—**Species.** PANK-1. 25¢
Seeds from South Rhodesia.

PANICUM.

(PAN-ik-um)

Gramineae. A large group of an. and per. grasses; some are ornamental.

—**capillare.** PANI-1. 25¢
Witch Grass. Everlasting; 2 ft; HA.

PANSY

Viola tricolor. *Violaceae.* Pansies are best grown as a hardy annual or biennial, especially in the North. They do best in a rich loamy soil and not exposed to hot, dry winds; they stand some shade. Seeds can be started indoors very early in a cool place and the plants shifted to flats and placed in a cold frame transplanting them to their out door beds in early May or they can be started in July, even as late as August and the plants established well before fall or wintered over in a frame. We sell a great amount of Pansy seed annually and will be pleased to quote special pound prices to commercial growers; for best prices orders should be placed before April for summer delivery; on these early orders it will not be necessary to remit at the time.

GIANT FLOWERING SWISS GIANTS:

Probably the most popular of the large flowering type Pansies; they are very large flowering, clear colors, both one color and in two color combinations.

—**Alpincolor.** PANS-1A. 25¢
Rich garnet and ruby-red shades with dark blotches.

—**Bergwacht.** PANS-1G. 25¢
Velvety violet-blue.

—**Berna.** PANS-1B. 25¢
Dark velvety violet-blue.

—**Blumlisalp.** PANS-1L. 25¢
Soft rose with a beautiful velvety blotch

—**Cardinal.** PANS-1D. 25¢
Bright red; very showy variety.

—**Claret.** PANS-1C. 25¢
An attractive wine-red.

—**Flame.** PANS-1F. 25¢
Aa attractive wine-red.

—**Luna.** PANS-1LA. 25¢
A showy rosy lilac or pink-lilac, with large dark blotch.

—**Mont Blanc.** PANS-1W. 25¢
The best pure white variety.

—**Orange Sun.** PANS-1S. 25¢
A new variety in bright orange.

—**Reingold.** PANS-1R. 25¢
Deep golden yellow with a dark blotch on lower three petals; showy.

—**Silver Bride.** PANS-1V. 25¢
A glistening white.

—**Ullswater.** PANS-1U. 25¢
Marine-blue with darker blotch of blue.

—**Yellow Master.** PANS-1Y. 25¢
An exceptionally fine deep rich yellow.

—**Wine Red.** PANS-1WR. 25¢
A rich showy wine-red.

—**Red Wings.** PANS-1RW. 25¢
Blend of Above Varieties. PANS-1X. 25¢

—**Dwarf Swiss Giants Mix.** PANS-1DX. 25¢
These are dwarf growing plants.

—**Saier's Swiss Giant.** PANS-1SX. 25¢
This is our best blend. It is recommended highly to those growing Pansies for the box trade, where extra color is wanted.

Oz. \$8.00; lb. \$40.00.

—**FELIX.** PANS-2F. 25¢

This is a recently introduced strain of "whiskered" Pansies that have been well liked by those already growing them; has yellow faces bordered blue, purple, bronze and red. Oz. \$6.00; lb. \$43.00.

—**Luna.** PANS-1LU. 25¢
Moonlight. Velvety giant.

—**Golden Yellow.** PANS-1GY. 30¢
Deep golden yellow with dark brown

VARIOUS PANSY STRAINS:

These are all large flowered types.

—**Black Monarch.** PANS-2BM. 35¢
Black-blue, the darkest giant blooming;

German grown seed. Oz. \$6.50.

—**Cassier's Giants.** PANS-2C. 25¢
All with beautiful large blotches. Oz.

\$4.00; lb. \$30.00.

—**Three Blotch.** PANS-2CT. 25¢

CHALON GIANTS

A very early, giant flowered Pansy with waved petals; colors in light and dark blue, yellow tinted colors; very robust and an excellent new strain for potting. ½ Oz. \$2.

—**Cornation Gold.** PANS-2N. 25¢
A giant pure golden yellow; very showy.

—**Englemann's Giants.** PANS-2E. 35¢
These are beautiful Pansies; the petals

have a lighter tone around the wavy edges; unusual red and bronze shades; compact habit. Oz. \$4.50; lb. \$35.00.

—**Germania, Mixed.** PANS-2G. 30¢

—**Goliath.** PANS-2GL. 30¢

—**Jet Black.** PANS-2JB. 30¢
Deep violet-black color; nearest to a

real black Pansy. ¼ Oz. \$1.50.

—**Westland Giants.** PANS-2W. 30¢

The largest flowering strain of Pansies; beautiful color variation and compact growth; ideal strain for market growers.

Oz. \$6.00; lb. \$40.00.

blotch; showy.

—**Maple Leaf.** PANS-2M. 25¢
Husky growers; dark green foliage; full

color range.

—**Masterpiece.** PANS-2P. 30¢

Daintily ruffled and frilled; rich reds and browns. Oz. \$3.50; lb. \$28.00.

ONDINE PANSY

A very early French strain in delicate spring-like colors; salmon, rose, lavender-blue and lilac combined with cream and pale yellow. Very pleasing contrast to the darker Swiss Giant strain. 6 inches. ½ oz \$2

—Orchid Flowered. PANS-2H. 25¢
Waved and curled petals in full colors.
Oz \$5.00; lb. \$40.00.

—Tigress. PANS-2T. 30¢
Miniature Pansies. Showy striped and blotched blooms in reds, orchid, yellow and purples. This is a distinct class, the flowers having 3 colors.

—Scottish Exhibition. PANS-2R. 25¢
Mammoth flowers, heavily blotched; petals of circular outline. Oz. \$5.50.

—Scottish Yellow. PANS-2CY. 30¢
Deep rich golden yellow; very large fls; 2-2½" ac; plants compact and uniform; 5-6" high. ½ Oz. \$2.00.

—Oregon Giants. PANS-2G. 25¢
Bright blend of giant flowered Pansies.

—Velvet Jewel. PANS-2VJ. 25¢
Velvety violet blue; showy.

—Triumph of the Giants. PANS-2TG. 35¢
The original seed saved from selected blooms; frilled giant blooming; lively colors; German grown. Oz. \$5.00.

TRIMANDAU: Excellent type for bedding; has a very choice color range; they stand more neglect than the large flowered strains. They are also good for planting farther South where the hot summers eliminate the large strains.

—Mixed Colors. PANS-9X. 25¢
—Cardinal Red. PANS-9C. 25¢
A flashy cardinal-red variety.

FIEFALIS: Ice Pansy. They flower very early even in the snow and while the flowers are smaller, they are distinct and showy for the time of year they flower; they should be planted so as to be protected from the sun.

—Blue Boy. PANS-3B. 25¢
Showy silver Blue.
—Claret. PANS-3C. 25¢
Beautiful wine-red.

PIRNA TYPE. PANS-3PX. 30¢

This type is 8-14 days earlier than the regular V. hiemalis; special blend of colors.

—Celestial Queen. PANS-3Q. 25¢
Brilliant light blue.

—Helios. PANS-3H. 35¢

—Ice King. PANS-3K. 30¢

—Snow white with black eye; showy.

—March Beauty. PANS-3M. 35¢

—Dark velvety purple.

—North Pole. PANS-3N. 30¢

—Pure icy white.

—Winter Sun. PANS-3S. 25¢

—Golden yellow with showy dark blotch.

—Zurich Sea. PANS-3Z. 25¢

—Very showy light blue.

—Woden. PANS-3W. 25¢

—Black; king of the spring garden.

—Hiemalis Blend. PANS-3X. 25¢

—ALL PANSY BLEND. PANS-X. 25¢

Contains all the Pansies listed above plus many other kinds. Oz. \$2.00; lb. \$20.00.

PAPAVER: see under **POPPY**.

PARKINSONIA. (pahr-kin-SOH-nee-ah)

Leguminosae. Tropical and sub-tropical shrubs and trees with whitish or yellow racemes and flattened leathery pods; none are hardy in the North but some are native up to Texas and Arizona.

—aculata. PARK-1. 30¢

—Jerusalem Thorn, Ratama. Tr to 30 ft; good hedge plant; (IX); Oz. \$1.25.

PARMENTIERA. (pahr-ment-YEER-uh)

—cereifera. PARM-3. 30¢

Candle Tree. White flowers 3" long; followed by fruits to 4 ft. long, resembling candles; (IX). (see-RIF-er-ah).

PARNASSIA. (par-NASS-ee-uh)

—fimbriata. PARN-7. 40¢

Fringed petals; 1 ft; HP; Alaska.

—nubicola. PARN-12. 40¢

Small grass-like herbs; India; damp spots (new-BIK-ol-ah).

—pulustris. PARN-15. 25¢

Flowers 1" across; (IV); HP.

—Mixed. PARN-X. 20¢

Several species mixed.

PARODIA.

Cactaceae. Plants small; yellow to red fls; S. Amer.

—Maassii v. auricolor. PARO-10A. 40¢

PARONYCHIA. (par-oh-NIK-ee-uh)

Whitlow-wort, Nail-wort. Illeceosceae. Small herbaceous tufted annuals and perennials with small clustered flowers. They are especially nice in the rockery and easy to grow.

—serpyllifolia. PARON-15. 50¢

(capitata) Silvery white fls in dense terminals; sod forming; 6"; creeping root-stalks.

PARROTIA. (par-ROH-tee-uh)

—persica. PARR-2. 25¢

Excellent tr to 50 ft growing with several trunks from base; nice Autumn coloring; showy bark; let branches grow to ground; (IV); (PER-sik-ah).

PARSLEY: see *Carum Petroselinum*.

PARSONSIA: see *Cuphea*.

PARTHENOCISSUS. (parth-en-oh-SISS-us)

—quinquefolia. PART-5. 25¢

Virginia Creeper. Hardy vine to 10 ft.

—tricuspidata v. Veitchii. PART-7. 25¢

Boston Ivy. Young leaves purple; vine grown mainly on stone or brick walls; to 60 ft; hardy; (IV); (try-kusp-id-DAY-tah).

PASPALUM.

—racemosum. PASP-10. 30¢
(P. elegans).

PASSIFLORA

Passion Flower. Passifloraceae. Mostly tendrill climbing plants, not hardy in the North but many are grown indoors where they make good house plants. In pots use some leaf mould in a fibrous loam and give liquid manure when in growth; (patt-er-FLOH-ruh). Donot spade or hoe around plants as roots are near surface of soil and

resent disturbance.

—**alaia.** **PASS-1. 30¢**
Frag. white fls, red inside, 5" ac; yellow fr; edible; Trop Amer.

—**antioquensis.** **PASS-4. 40¢**
(Tacsonia Van-Volxemii). Bright red fls to 4" across; (X); probably the most ornamental of garden types. 100 seeds \$2.25.

—**alaio-caerulea.** **PASS-2. 50¢**
(Pfordtii) Giant Mexican Passion Fruit. quick growing climber with large sub-acid purple fruits.

—**Byronoides** **PASS-7. 40¢**
Low growing herbaceous cl, bearing dainty blue and white fls, ¾" ac, followed by small black fruits.

—**cinnabarina.** **PASS-9. 40¢**
One of the few native Aust. Passion climber; evergreen; not an over-vigorous cl. bearing red star-shaped fls, 2" ac with small yellow crown followed by green aromatic fruits; poor soils; (X).

—**caerulea.** **PASS-8. 40¢**
Pale pink fls; fruits yellow; (X); or GH. (see-REW-lee-ah); Oz. 75¢; lb. \$6.00.

—**edulis.** **PASS-12. 40¢**
Purple Granadilla. White fls, 2" ac; fruits purple; edible; (ED-yew-liss).

—**Foetida.** **PASS-14. 40¢**
Tall grower but not rank; hairy lvs; can stand only light frost; pale lavender; pretty and scented; fr edible; fls 1st yr from seed; germinates best with heat.

—**incarnata.** **PASS-17. 25¢**
White flowers shading to pink with rings around blossom; Va-Texas.

—**mollissima.** **PASS-29. 40¢**
Rose fls, 3" across; yellow fruits; (X). sub-acid purple fruit.

—**quadrangularis.** **PASS-32. 40¢**
(mol-LISS-im-ah) (Tacsonia).

—**subpeltata.** **PASS-39. 40¢**
(P. alba) Pure white fls, 2" ac; Mexico.

—**tomentosa.** **PASS-44. 30¢**

—**tomentosa speciosa.** **PASS-44S. 25¢**
Tall grower but not a wild one; fls 3" across, a beautiful deep pink shade; petals surround a purple collar of rather coarse hairs; fls the year around; is used in floral work; N. Z.

PAULOWNIA. (pol-LOH-nee-uh)

Scrophulariaceae. Ornamental trees not hardy in North; sow seed thinly on surface of a loamy soil, during late Feb; guard against damping off.

—**tomentosa.** **PAUL-4. 30¢**
A pretty ornamental tree to 40 ft; pale violet fls, spotted darker inside; fragrant; (VI); seedlings damp off easily; give air circulation, especially at night; best sow in spring; (imperialis). Oz. 70¢; lb. \$6.00.

PAVONIA.

Malvaceae. Plants from warm regions; some make good GH plants.

—**hastata.** **PAVO-5. 50¢**
Pale red fls with spot at base; shrubby.

PAW PAW: see *Asimina triloba*.

PEACH: see *Prunus perica*.

PEDICULARIS. (ped-ik-yew-LAY-riss)

Wood-Botony, Lousewort. Scrophulariaceae. Annuals and perennials with 2-lipped flowers in spiked clusters in whitish and red-dish colors and used in the rockery and border with good effect.

—**canadensis.** **PLANTS ONLY**
Wood Betony. Lvs fern-like, clustered, 6-12"; fls red and yellow in short dense

spikes; shade or part. **Plants: 75¢; 3-\$1.60.**

—**densiflora.** **PEDI-4. 25¢**

Very brilliant scarlet fls; woodland; 1 ft; Calif; HP.

—**megalantha.** **PEDI-9. 40¢**

Deep purple-red fls.

—**greenlandica.** **PEDI-5. 25¢**

Red and purple flowers; 18"; hardy; HP.

—**siphonantha.** **PEDI-12. 25¢**

Pink fls; beautiful leaves; rockery; HP.

—**Mixed.** **PEDI-X. 25¢**

PELAGORNIUM. (per-ahr-GON-nee-um)

Stork's Bill. Geraniaceae. The Geranium of the greenhouse, all tender perennials.

Many pretty forms can be grown from seed.

—**graveolens.** **PELA-18. 40¢**

Rose Geranium. Rose flowers; 2-3 ft; fragrant lvs used in tea; often cooked in rice, custards, puddings. (grav-VEE-ol-enz).

—**lateripes.** **PELA-23. 50¢**

(P. hederæfolium). Ivy Leaf Geranium. Similar to P peltatum but ivy leaved.

—**odoratissimum.** **PELA-28. 50¢**

Apple or Nutmeg Geranium. White fls in 5-10 fl'ed umbels; (oh-dor-at-TISS-im-um).

—**zonale, Mixed.** **PELA-35. 30¢**

A choice selection made from a large European collection; (zoh-NAY-lah). Oz. \$8.00.

PELTOPHORUM. (pel-TOH-flor-um)

(Baryxylum) Leguminosae. Tropical ornamental trees with showy yellow flowers in terminal panicles and flattened winged pods.

—**africanum.** **PELT-4. 40¢**

Rhodesian Black Wattle. Very ornamental tree; bright yellow flowers and feathery foliage; sweet scented; thornless; fls in terminal clusters; (X).

—**inermis.** **PELT-5. 40¢**

(ferrugineum). Showy tree; (X); (in-ERM-ah); C-58.

—**Mixed** **PELT-X. 30¢**

PENNISSETUM. (pen-nis-SEET-um)

Gramineae. Ornamental Grass. Annuals and perennial grasses for the border or specimen planting; useful, also, as dried grasses; start indoors early for good sized plants; TA.

—**caudatus.** **PENN-2. 25¢**

—**latifolium.** **PENN-4. 30¢**

Grows to 4 ft; leaves 1 ft. long; spikes 4" long, nodding; Peru; HHP.

—**Ruppelii.** **PENN-9. 25¢**

Fountain Grass. Solitary spikes, purple, red and rose; 4 ft; TP. ¼ Oz. 75¢.

—**villosum.** **PENN-11. 25¢**

(longistylum) Pretty; 2 ft; spikes plume-like; purplish; TP. ¼ Oz. 75¢.

—**Mixed.** **PENN-X. 25¢**

PENSTEMONS

Attractive genus of perennials, nearly all of which are native of N. America, one comes from Japan; bright tubular flowers on terminal racemes or panicles. They are not hard to grow; best in well drained soil; C-9 or 23.

—**acuminatus.** **PENS-2. 40¢**

—**alpinus.** **PENS-7. 50¢**

—**arizonicus v. Heller.** **PENS-14H. 35¢**

Purple fls; 8"; glabrous; (V); HP.

—**auriberbis.** **PENS-15. 25¢**

Neat rockery plant; showy, pale lilac fls; golden beard; 4-8"; HP.

—**barbatus.** **PENS-20. 25¢**

Red fls 1" long; 6 ft; Utah; HP. Oz. \$1.50.

—**Flat Head Lakes.** **PENS-20F. 25¢**

Clear coral red; blooms all summer; nice;

- HP.
 —*barbata*. PENS-20N. 35¢
 A dwarf hybrid.
 —*Cardwellii*. PENS-29. 25¢
 Fine sub-shrub; purple fls; broad ev. lvs;
 1 ft; HP.
 —*alba*. PENS-31A. 30¢
 A pretty white form.
 —*centranthifolius*. PENS-36. 35¢
 Scarlet fls, 1" long; Calif; 3 ft.
 —*ablorus*. PENS-33A. 30¢
 —*Cobaea*. PENS-34. 25¢
 Purple fls, 2" long; 2 ft; Mo-Tex; HP.
 Oz. \$1.30.
 —*cyananthus*. PENS-44. 30¢
 Intense blue fls in clusters; 2 ft; HP.
 —*diffusus*. PENS-51. 30¢
 Bushy; fls ¾" long; blue or purple; B.C;
 (IV); HP.
 —*Blue Bedder*. PENS-51B. 30¢
 A rich blue flowered form.
 —*Digitalis*. PENS-53. 25¢
 White or pinkish fls; strong grower; 5 ft;
 HP. H
 —*Eatonii* ssp. *exerius*. PENS-57S. 35¢
 Showy; large red spikes; 4 ft; HP
 —*flavescens*. PENS-63. 25¢
 Neat alpine; small creamy yellow fls; HP.
 —*floridus*. PENS-64. 25¢
 Showy fls in spikes of rose-pink; 4 ft; HP.
 —*fruticosus*. PENS-65. 25¢
 Blue fls in June; shrubby; 2 ft; HP.
 —*alba*. PENS-65A. 25¢
 Good shrubby evergreen; white fls.
 —*Gaidneri*. PENS-66. 30¢
 Small pure blue fls; plant tufted; 10"; HP.
 —*Garrettii*. PENS-67. 25¢
 Large deep blue fl-spikes; RG; 1 ft; HP.
 —*gentianoides*: see *P. Hartwegii*. Good HP.
 —*glaber*. PENS-68. 25¢
 Procrumbent; fine purple-blue; is very
 hardy; 1 ft; HP.
 —*gloxinioides* *Sensation* PENS-71S. 25¢
 Showy; many colors; cuts; 2 ft; HP.
 —*gracilis*. PENS-75. 30¢
 Lilac or whitish fls; 15"; (II); HP.
 —*grandiflorus*. PENS-88. 25¢
 Showy large lavender-blue fls; 6 ft; HP.
 —*x Murrayanus*. PENS-76M. 30¢
 A nice cross; easy; HP.
 —*abus*. PENS-76A. 25¢
 Come 50% true; white form; 6 ft; HP.
 —*Lavender Form*. PENS-76L. 25¢
 —*Hartwegii*. PENS-83. 30¢
 Scarlet fls, 2" long; giant flowered.
 —*Haydenii*. PENS-89. 50¢
 —*heterophyllus*. PENS-84. 25¢
 Showy Calif. species; rose-violet to an
 intense blue; 3-5 ft. HHP.
 —*Gladwyne Varieties*. PENS-85G. 25¢
 Mrs. Norman Henry's strain; beautiful.
 —*Purdy*. PENS-86P. 40¢
 A beautiful blue selection by Carl Purdy.
 —*Pink Form*. PENS-88P. 25¢
 —*Murrayanus*. PENS-118. 35¢
 Deep scarlet fls. 1" long; 3 ft; glabrous
 and glaucous; Texas. Oz. \$1.50.
 —*Newberryi*. PENS-112. 40¢
 —*indica*. PENS-113. 25¢
 Blue fls; 1 ft; Montana; HP
 —*Olgae*. PENS-114. 30¢
 —*X grandiflorus*. PENS-118G. 35¢
 A good hybrid between these two species.
 —*ovatus*. PENS-119. 30¢
 Pretty blue fls; fine for cutting; 4 ft;
 (IV); HP.
 —*Palmeri*. PENS-120. 25¢
 Very showy; very large white, flushed
 pink fls; 3 ft; HHP.
 —*pigmaea rosea*. PENS-126. 25¢
 Rosy lilac fls good cut; grows well in the
 East; F. E. Blunck strain.
- Richardsonii*. PENS-176. 50¢
 —*Scouleri*. PENS-142. 25¢
 Shrub; white fls; 18"; HP.
 —*seruialus*. PENS-146. 35¢
 —*Six Hills Variety*. PENS-145. 25¢
 Small shrubby plant; rosy purple fls;
 4 ft; HP.
 —*triphyllus*. PENS-160. 35¢
 —*diphyllus*. PENS-160D. 40¢
 Rich blue-purple; attractive; RG; 1 ft;
 HP.
 —*tubiflorus*. PENS-161. 30¢
 White or tinged purple fls; (V); 3 ft; HP.
 —*venustus*. PENS-166. 30¢
 Light purple, 1" long; (III); HP.
 —*vireus*. PENS-169. 35¢
 —*Penstemon Blend*. PENS-X. 25¢
 Contains nearly all the species in the
 genus; not offered elsewhere. Oz. 75¢.
 PEONY: see *Paeonia*.
- PEPPER Ornamental: *Capsicum frutescens*.
 These make showy pot plants with their
 attractive colored fruits; some are excellent
 Christmas plants.
 PEPPER GRASS: see *Lepidium*.
- PEPERONICA. (pep-er-ROH-me-ah)
 —*Mixed*. PEPE-X. 50¢
 Excellent for indoor pot plants or for
 the far South.
- PERILLA. (per-RILL-uh)
 Labiateae. Half hardy annuals valued for
 their highly colored foliage and used in bed-
 ding for sub-tropical effect; thrives in light
 sandy soil; start seed indoors in March in a
 gentle heat; C-8.
 —*frutescens*. PERI-1. 25¢
 Foliage in many colors much like in *Col-
 eus*; 4 ft; germs. 8 days at 65-70 F; TA.
 —*atropurpureus*. PERI-1A. 25¢
 Dark purple, lacinated foliage.
 —*crispa compacta*. PERI-1C. 30¢
 Bronzy foliage; compact plants. ¼ Oz.
 50¢.
 —*lacinata*. PERI-1L. 25¢
 Pretty lacinated foliage.
 —*Mixed*. PERI-1X. 20¢
- PERIPLOCA.
 Silk Vine. Asclepiadaceae. Woody vines
 with wheel-shaped fls in terminal or aux-
 illary clusters; well drained soil; sunny spots;
 protect in N; (V).
 —*graeae*. PERP-3. 30¢
 Greenish fls with brownish purple inside,
 1" ac; 40 ft; (V). Oz. 90¢; lb. \$6.00.
- PERSEA. (PURR-see-uh)
 Small ornamental trees grown in warm
 sections of the country.
 —*americana*. PERS-1. 30¢
 Avocado. Tree; (IX).
 —*Boronia*. PERS-3. 30¢
 Red Bay. Hardy to (VII).
- PERSONIA.
 Proteaceae. Aust. and N. Z. small shs and
 trs; fruits a drupe; suitable for South.
 —*Hairy Geerung*. 200 seeds to oz; Australia.
 PERO-10. 35¢
- PETROCALLIS. (pet-roh-KAL-liss)
 Cruciferae. Annuals and perennials; a
 few sub-shrubs of the Medit. region, much
 like *Scabiosa*.
 —*pyrenaica*. PETOC-3. 40¢



BALCONY or PENDULA PETUNIAS

Purplish pink composite-like heads, 1" across; 4 inches; HHP.

PETUNIAS

There is hardly any other flower that will give as much bloom, with as little care, as will the Petunia; in hot summers their bloom is continuous. The chief pit-fall the amateur runs up against in growing Petunias is in the seed sowing; almost invariably they bury the tiny seeds too deeply. First the soil should be a good loamy texture with leaf mould mixture for the top; fern-pots make ideal seed pans as they can be watered by setting them in a little water; do not soak. In sowing the seed be careful not to sow too thickly; always press the seed into the soil then a fine sprinkling of sand or milled sphagnum moss, not too much; cover pot with a pane of glass and be sure to wipe it off each morning to prevent the moisture on the under side from dripping on the seeds; about a 60 degree Far. temperature at night will do; LW; C-18.

DWARF GIANTS OF CALIFORNIA:

Huge flowers on dwarf sturdy plants, especially bred for pot plants.

- Dark Shades. PET-1DS.. 50¢
 - Light Shades. PET-1LS. 50¢
 - Dark and Light Shades. PET-1DL. 50¢
- 1/64 Oz. \$3.50. Trade Packet: \$1.00.

GIANTS OF CALIFORNIA:

The largest flowers in the Petunias; heavily ruffled with a heavy, robust growth;

excellent for both florist and garden use.

- Paramont Giants. PET-2P. 50¢
- Free flowering; light and dark shades. 1/8 Oz. \$3.90.
- Prince of Wurtemberg. PET-2W. 50¢
- Dark purple with dark throat; very good.
- Princess of Wurtemberg. PET-2Z. 50¢
- Light rose with dark throat.
- Salmon Queen. PET-2SQ. 50¢
- Superbissima nana. PET-2SB. 50¢
- Dwarf giant flowering; extra good for pot culture. 1/8 Oz. \$7.50.
- Special Blend. PET-2X. 50¢
- Very choice; contains above also. 1/16 Oz. \$5.00.

NEW HORIZON.

PET-2H. 50¢

A fine new blend of Tall California Giants, noteworthy for the new range of colors not seen before in this class, coupled with almost complete uniformity of flower size. New colors include strawberry, delicate Dresden pink, orchid lavender, old rose, copper rose, white; many harmonizing throats veined and flush with purple, brown and green shades.

NEW HORIZON is produced from family lines taken from the breeding ground both F2 and open-pollinated types are represented, to combine the best and rarest colors provided by both techniques. Flowers are of extra large size—up to six and seven inches across, and are slightly ruffled. Plant growth is strong and vigorous. The first flowers are borne on a central upright stem, with base branches following to form a mound-like plant. NEW HORIZON is our suggestion for the best Tall Giant of California strain to the most critical plant growers. 1/4 Oz. \$8.00.

GRANDIFLORA Large Single Fringed:

Strong, free flowering; 12-16" plants; some varieties spreading, others compact; many plain edged flowers of heavy substance and velvety texture; prime favorites of florist; sow about Nov. 25th to flower in 4" pots during April; 50 degree F at night.

—**Fluffy Ruffles.** PET-3F. 50¢
Mixture of bicolors; many not offered otherwise..

—**Theodosia.** PET-3T. 50¢
Fringed; rose, gold throat; very nice.

—**Blend.** PET-3X. 50¢
Made up of the very best varieties.

GRANDIFLORA Single Plain Edged:

These are like the above but all plain edged; especially good for boxes and bedding.

SYMPHONY F2 HYBRIDS

Symphony contains a color range heretofore unknown in Petunias. Range from white thru light pink, pink, rose, salmon, cerise, crimson, carmine, light and dark blue to scarlet; many of the self colors have golden throats, adding greatly to their charm; also a good percentage of bicolors in blue and white, rose and white, copper and white and crimson and white shades. Size of flower varies slightly but 3-4 inches across with fringed and ruffled edges is the predominating type. The plants are hidden in a mass of blossoms.

—**Symphony F2 Hybrids.** PET-4S. 75¢
1/32 Oz. \$4.00.

—**Bonanza.** PET-4GZ. 50¢
Multiflora type in F2 hybrids.

—**Burgundy.** PET-4B. 50¢
All-American selection; pretty red with a white throat.

—**Dazzler.** PET-4D. 50¢
A new brilliant scarlet; compact growth.

MINSTREL. PET-4M. 50¢

A new variety in white with fine dark rich blue markings on edge of petals; fis are 3" ac; dwarf growing habit; different.

—**Dwarf Elk's Pride.** PET-4E. 50¢

Deep velvety purple; compact.

—**Special Blend.** PET-4X. 50¢

A choice blend of varieties. 1/16 Oz. \$4.50.

HYBRIDA:

Strong growing and free flowering; 20-24" plants bearing medium sized plain edged single flowers; excellent for boxes or beds.

—**Flaming Velvet.** PET-5F. 25¢

A brilliant velvety scarlet; reselected.

—**Howard's Star.** PET-5H. 25¢

Reddish purple white star; popular.

—**Radiance.** PET-5R. 25¢

Rich cerise-rose, salmon undertone, yellow throat; good.

—**Rose King Improved.** PET-5K. 25¢

Rich rose with white throat; much used for boxes.

—**Rose Queen.** PET-5Z. 25¢

—**Topaz Rose.** PET-5T. 25¢

A rich rose and gold tone.

—**Violacea.** PET-5V. 25¢

Deep violet; best of its color.

—**White King.** PET-5W. 25¢

The best pure white.

—**fimbriata Triumph, Double Mixed.**

PET-5DX. 50¢

PET-5X. 25¢

—**Special Blend**
A careful blend of varieties; not a mixture of field grown varieties. 1/16 Oz. \$1.00.

HYBRIDA NANA COMPACTA:

Much the same type of flower as above but the plants are compact growing, 12-16" with medium sized plain edge flowers; they are especially good for bedding or borders.

COLORAMA F2 HYBRID.

The color range is pure white, light and medium salmon, scarlet-salmon, warm scarlet, fiery red, light, medium and rose-pink; many with goldtn and topaz throats; also white bicolor in crimson, rose, blue and dark blue and many starred varieties. The hybrid vigor giveth twice as many flowers; plants completely uniform. There is no other Petunia like it. 1/8 Oz. \$5.00.

—**Colorama F2 Hybrid.** PET-6C. 75¢

—**Bright Eyes.** PET-6B. 25¢

A soft pink with a showy white throat.

—**Erfordia.** PET-6E. 25¢

Brilliant rose with white throat.

—**FIRE CHIEF.** PET-6F. 25¢

Gold Medal Winner; brilliant scarlet-red.

—**Glow.** PET-6G. 25¢

Dazzling carmine-red.

—**Lavender Queen.** PET-6L. 25¢

A clear lavender without any markings.

—**Pop Corn.** PET-6PC. 35¢

A dwarf version, identical in flower form and size of bloom with Snowstorm. It is earlier blooming and its habit is exceedingly dwarf and compact; 8". 1/32 Oz. \$5.00.

—**Miniature Rose Gem.** PET-6R. 25¢

Pure rose on a small compact plant.

—**Rose of Heaven.** PET-6H. 25¢

Brilliant rose; dwarf; extra strain.

—**Rosy Morn.** PET-6M. 25¢

Rose with white throat; select strain.

—**Salmon Supreme.** PET-6SS. 25¢

Bright showy salmon color in compact dwarf plants. 1/8 Oz. \$1.50.

—**Snow Queen.** PET-6W. 30¢

The best pure white.

—**Topaz Queen.** PET-6T. 30¢

Glowing carmine-rose overlaid with an orange-scarlet sheen.

—**Twinkles.** PET-6N. 25¢

Bright rose with white star; showy.

—**Velvety Crimson.** PET-6V. 25¢

A rich velvety crimson.

—**Fancy Blotched & Striped.** PET-6BS. 25¢

—**Blend.** PET-6X. 25¢

This comes in an extremely wide color range, incorporating much hybrid vigor as planting is made from properly segregating F1's, F2's and those suitable open pollinated types that match and add materially to the color range. Without hesitation, this blend can claim the widest color range of any Petunia mixture. 1/16 Oz. \$1.00.

Any above: 1/16 Oz. \$1.00.

—**BALCONY or PENDULA:**

Strong growing 18-24" plants with a spreading or trailing habit; bearing many plain edged flowers larger than the ordinary bedding types. Excellent for both bedding and window or porch boxes.

—**Bergundy.** PET-7B. 25¢

Pretty purple-carmine with white throat.

—**Black Prince.** PET-7P. 25¢

A deep velvety red.

—**Crimson.** PET-7C. 25¢

—**Elk's Pride.** PET-7E. 25¢

The darkest velvety purple.

- Rose. PET-7Z. 25¢
 - White. PET-7W. 25¢
 - Special Blend. PET-7X. 25¢
- Contains a blend of many choice varieties. Price: Any of Above, 1/8 Oz. \$1.00.

MULTIFLORA TYPE:

- Gold Centers, Mixed. PET-10GC. \$1.00

- ROSE STAR. PET-10RS. 50¢

In color pattern like Space Star; color is pink with white star; plenty of hybrid vigor, dwarf growing.

- SPACE STAR. PET-10SS. 75¢

NEW. A striking new color, a rose-red with 5 white long center markings producing a star; very dwarf and compact; a bright and gay color.

- Miss Muffet. PET-10MM. 70¢

A rich salmon-scarlet with golden throat; slightly fringed petals; long trumpet; a continuous bloomer; on compact plants and

MINATURE PETUNIAS: These are the real dwarf kinds with small flowers and ideal for edging and other places where a real plant is wanted.

- BABY WHITE. PET-9W. 50¢

NEW. A very showy new variety introduced this year; very small compact 5" high, plants 6" ac. 1/32 Oz. \$1.50.

DOUBLE and RUFFLED:

These are mainly grows for pot culture or for boxes that can be protected from the storms; the pale green foliage plants are the best, when picking out this type of Petunia.

SAIER'S GIANT DOUBLE PETUNIA

This is a new introduction, not offered before. Many of the flowers are as large as 5" across and full perfect double form. Few small doubles will be found. I offer it this year in a blend; a wide range of colors in deep salmon-rose, carmine, salmon, pink, rose, orchid, white, violet, purple and variegated. Pkt. of 200 seeds \$1.00.

- SAIER'S Giant Double. PET-8SX. \$1.00

- Double Flowered Mixed. PET-8DX. 50¢

- 1/8 Oz. \$15.00.
- Giant Fimbriata, Mixed. PET-8F. 50¢

Petals heavily fringed and fimbriated; looks almost double. 1/8 Oz. \$15.00.

PEUMUS.

Monimiaceae. Evergreen deciduous trees from Chile.

- Boldus. PEUM-1. 40¢

Boldo. Valuable tree for South; (IX).

PHACELIA

Hydrophyllaceae. Hardy annuals and perennials with flowers in lavender to blue, in clusters or racemes; very pretty in mass plantings. Start early indoors or plant later in the open; the perennials can be started as late as Aug; DW; they do not transplant

well, thus sow in small pots.

PHACELIA.

..(fa-SEE-le-ah)

- campanularia.

Brilliant deep blue fls; dry soil; sun; 9"; excellent for edges of carpeting; free flowering; HHA; fls in 2 months. Oz. \$1.00.

- leucophylla. PHAC-7. 25¢

Spikes of white or pink fls; showy in RG; 1 ft; HP; (lew-koh-FILL-ah).

- tanacetifolia. PHAC-15. 25¢

Bee Food; blue fls, especially grown for bees; sow in April; HA. Oz. 40¢; lb. \$2.50. This germinates best in the dark.

- viscida. PHAC-16. 30¢

(Eutoca) Deep blue; 15"; HA; excellent bee-food plant. Oz. 90¢; lb. \$7.00.

- Musgrave Strain. PHAC-16M. 35¢

Gentian-blue Phacelia-like fls; free flowering and excellent for bees; 15"; HA.

- Whitlava. PHAC-17. 25¢

California Bluebells. Blue, bell-shaped fls; 18"; HA.

- Phacella Blend. PHAC-X. 20¢

PHAEOMERIA.

- magnifica.

Collected in Brazil.

- PHAE-5. 40¢

PHASEOLUS.

(fas-SEE-ol-us)

Leguminosae. Bean. Tender twining annuals mainly grown for their edible pods.

- Caracalla.

Snail Flower, Corkscrew Fl. Twining; 20 inches; light purple fls; fragrant; (X).

- Mungo.

Black Gram. Yellow fls; 3 ft; TA.

PHELLODENDRON.

(fel-lon-DEN-dron)

Cork Tree. Rutaceae. An East Asian tree hardy in the North; flowers greenish, small, in terminal panicles or corymbs, followed by berry-like fruits ornamental.

- amurense.

Amur Cork Tree Vigorous growing ornamental tr to 45 ft; (III); pretty in winter; only pistillate plants bear berries. Oz. 1.00.

- bipinnatifidum.

Spathes 8" long, purple outside, whitish

- ficutissimum.

PHEL-13. \$1.00

PHILADELPHUS.

(fil-ad-DELf-us)

- grandiflorus.

Mock Orange. Hardy shrub with Orange like fls; (IV); seed saved from named varieties; fall sown seed germinates freely in the spring. c. s. Oz. 60¢; lb. \$4.00.

PHILODENDRON.

Araceae. Tropical Amer. climbers; grown as foliage plants. I can furnish seed in some 8 species but orders must be filled only as the seed comes in; its not common.

- Mixed Species.

PHLN-X. \$1.50

PHILOGCANTHUS.

(flo-gah-KAN-thus)

Acanthaceae. Somewhat shrubby plants with spikes of attractive flowers; related to Acanthus. Best grown in the greenhouse in a warm damp atmosphere and in rich soil.

- trysiflorus.

Dark orange-red fls on long spikes. Oz. \$1.50.

PHLOMIS.

(FLOH-miss)

Labiatae. Perennial plants suitable for the border and wild garden. They are rather course in growth and should be in the back

ground planting.

—**Purple.** **PHLO-1. 25¢**
Showy, easy; vivid purple fls; whorl above whorl; 4 ft; HP.

—**fruticosa.** **PHLO-5. 25¢**
Jerusalem Sage. Yellow fls in whorls; 4 ft; (v.l.); HSh; (crew-tik-KOH-sah). ideal for dry, sun-baked soil; yellow fls in dense terminal woolly heads in June; low growing evergreen; 4 ft; HSh.

—**amra.** **PHLO-10. 35¢**
Purple fls in 10-15 flowered whorles; 3 ft; HP; Greece.

—**tuber-sa.** **PHLO-13. 25¢**
Purple fls; 6 ft; HP.

—**viscosa.** **PHLO-19. 35¢**
(Burselliana) Shrubby; yellow fls.

—**Mixed.** **PHLO-X. 20¢**

PHLOX

Polemoniaceae. Annuals and perennials, in many forms. They are easily grown from seed.

—**decussata:** see *P. paniculata*.

DRUMMONDII grandiflora:

These are popular annuals and give a brilliant display; can be started early indoors and transplanted out side end of May; they do very well in hott or tropical gardens too; 2-3 ft; HHA.

—**Brilliant.** **PHLX-1BL. 30¢**

—**Isaellina.** **PHLX-1B. 20¢**

—**Buff-yellow flowers.**

—**Leopoldi.** **PHLX-1L. 20¢**

—**Rose-pink with white eye.**

—**Stellata splendens.** **PHLX-1SS. 30¢**

—**Petals deeply cut; large flowers.**

—**Tetraploid.** **PHLX-1T. 35¢**

—**Giant flowering; deep red; strong stemmed.** ½ Oz. \$1.00.

—**Fimbriata and cuspidata.** **PHLX-1C. 35¢**

—**Mixed.** **PHLX-1X. 20¢**

Above: Oz. \$2.60.

DRUMMONDII nana compacta:

Dwarf compact plants extra choice for bedding; HHA.

—**TWINKLE.** **PHLX-2T. 30¢**

A dwarf version of stellata or Star Mixed. Only 7 inches tall, uniformly compact plants carry the star-shaped fls in large trusses well above the foliage; gay colorful blend of colors.

—**Globe Mixed.** **PHLX-2GX. 25¢**

—**Uniform very compact ball-shaped habit.**

½ Oz. \$2.25.

—**Mixed.** **PHLX-2X. 20¢**

DRUMMONDII BEAUTY:

An extra dwarf strain of compact and uniform habit; large bright flowers.

—**Beauty Mixed.** **PHLX-3X. 25¢**

—**paniculata.** **PHLX-37. 25¢**

Perennial Phlox. In many colors; fls 1" ac; 4 ft; HP; this species needs a cold spell before germinating, so do not expect germination from summer planted seed; C-24. Formerly listed as *P. decussata*. Oz. \$2.00. Very likely these germinate best in the dark; the should be planted on firm soil and kept in a rather cool place to germinate well.

—**New Hybrids** **PHLX-37H. 35¢**

—**New German Hybrids.** It is very desir-

able to grow this species from seeds; a stronger plant, healthier and often very superior types; seed can be planted outdoors early in Nov or in Spring.

—**stolonifera.** **PLANTS**

Creeping Phlox. 4-12"; creeping; reddish

purple fls in early Spring; semi-shade.

PLANTS: Each 50¢; 3-\$1.00; 25-\$7.00.

—**subulata.** **PHLX-53. Plants**

Moss-Pinks. 4-8", pink, crimson or nearly

white; evry showy in early Spring.

PLANTS: Each 50¢; 3-\$1.00; 25- \$8.00.

PHOENIX. (FEE-nix)

Date Palm. Palmaceae. They are grown in the North as tub plants but are hardy in the South. Seed should be ordered early with delivery usually in late fall when seeds are fresh; C-45.

—**canariensis.** **PHOE-2. 75¢**

(Jubae tenuis) Palms to 50 ft; very striking and one of the hardiest. c. s. Oz. 50¢; lb. \$1.50.

—**dactylifera.** **PHOE-5. 75¢**

Date Palm. (IX); ornamental. Oz. 75¢.

40 seed to oz. (dak-til-LIF-er ah)

—**humulis v. Hanceana.** **PHOE-9H. \$1.00**

Small palm to 3-4 ft; a hardy form with

grayish green lvs; lb. about 2,200 seeds;

new crop Oct. Lb. \$25.00.

—**Hybrids.** **PHOE-10. 75¢**

100 seeds \$2.50; 1,000, \$3.50.

—**eciliata.** **PHOE-12. 75¢**

Best known of the African Palms. 100

seeds \$3.00; 1,000, \$9.00.

—**rupicola.** **PHOE-19. 75¢**

Fast growing Palm and of interest as a

lawn specimen in far S or for pot culture

indoors; to 20 ft; 150 seeds to oz.

—**serotinis.** **PHOE-15. 75¢**

Large Date Palm. Ornamental; (X). 100

seeds \$3.00; 1,000, \$9.00.

PHOENOCOMA.

South African shrubs.

—**prolifera.** **PHOC-10. 40¢**

Pink everlasting flowers; fine; 2 ft; TSH.

PHORMIUM. (FORM-ee-um)

Liliaceae. New Zealand natives, hardy in warm sections; sow seed in February either out doors or in pots in rich soil.

—**Cole-soi.** **PHOR-2. 25¢**

Mt. Flax. Excellent for an exposed bank

or large rockery; 3-4 ft; (V); N. Z.

—**sericea.** **PHOR-4. 50¢**

Well known N. Z. plant; unrivalled as a

graceful drooping specimen plant; its fiber

is also of commercial value; fls dull red on

tall spikes; 8 ft; (V); N. Z.; (TEN-ex)

—**rubra.** **PHOR-4R. 50¢**

Colored leaves of rich coppery bronze to

brownish purple; most distinctive; 4 ft;

(VI); N. Z.

—**tricolor.** **PHOR-7. 40¢**

Handsome N. Z. plant; nice for water-

side or large tub; considered hardy in N. Z.

PHOTINIA. (foh-TIN-ee-uh)

Rosaceae. Trees and shrubs native of Asia. White flowers in panicles, followed by small berry-like fruits; sow seeds in spring better if stratified in sand during the winter. Same seed treatment as for Cotoneastes and Crataegus; they do not transplant well so grow in pots till wanted for their permanent situations.

—**glabra.** **PHOT-6. 35¢**

(serrulata) Young lvs in sp are delight-

ful blend of suffused pink and pale green;

fairly rich soil; 10 ft; fl-heads 4" ac; Japan; (IX). Oz. 90¢; lb. \$6.00.

—**serrulata**. **PHOT-8. 40¢**
(*Cratagus glabra*) Ev. sh. or tr to 40 ft; fls heads to 6" ac; China; nice ornamental tree for South.

—**villosa v. laevis**. **PHOT-11L. 40¢**
(*Porthiaca arguta*) Decid. sh or tr; 10 ft; (IV); Japan; this has smaller glabrous ls. Oz. 90¢; lb. \$6.00.

PHRAGMITES.

Gramineae. Tall perennial grasses; spikelets in panicles; wet places; ornamental.

—**maxima**. **PHRA-3. 50¢**
Bamboo-like lvs with feathery plums, 6 ft high, purplish, fading to white; grow in or near water; Australia.

PHYGELIUS. (fye-JEEL-ee-us)

Scrophulariaceae. Cape Fuchsia.

—**capensis**. **PHYG-3. 50¢**

Cape Fuchsia. GH; 3 ft; purple-scarlet fls, 2" long.

PHYLLITIS.

(*Scolopendrum vulgare* or *officinare*). Hart's-tongue Fern. Hardy.

—**Scolopendrium**. **PHYF-1. 50¢**
Gold and Silver Ferns. (*Ceropteris*)

PHYLLANTHUS. (fil-LAN-thus)

Euphorbiaceae. Grown in warm climates; fruits edible.

—**Embllica**. **PHYA-6. 40¢**
Shs or trs to 30 ft; fruits used as pickles; (X).

PHYLLODOCE. (fill-LO-do-ka)

—**aleutica**. **PHYL-1. \$1.00**
HP. 12"; Alaska; whitish fls

—**nippensis**. **PHYL-12. 75¢**
White, bell-shaped fls; 6"; Japan.

PHILLYREA. (fil-LIHR-ee-uh)

Oleaceae. Small ev. trs. and shs from Med. regions; ornamental; VI; zone and South.

Bold foliage evergreen shrubs with small white tubular fls, delicate scent; slow in growth but easily grown; excellent back-ground shrubs.

—**angustifolia**. **PHYE-3. 40¢**
To 15 ft; hardy in South. Oz. 90¢.

PHYSALIS. (FYE-sal-iss)

Husk Tomato, Ground Cherry. Easily grown; start indoors or plant direct to soil, treating them as for Tomatoes. Most of those offered are very ornamental; C-7.

—**Alkekengi**. **PHYS-1. 25¢**

(*P. Franchetii*) Chinese Lantern Plant. Ornamental seed pods for dried decorations; HHP; grow as HA. Oz. \$1.25; lb. \$13.00. (al-ke-KEN-ge)

—**PYGMY.** **PHYS-1P. 50¢**

A NEW dwarf growing variety of the Chinese Lanter plant, suitable for pot culture; grows 8" high; open growth; good for Christmas plants.

—**pruinosa**. **PHYS-9. 25¢**

Edible Ground Cherry. Wisconsin native.

PHYSIANTHUS *albens*: see *Araujia*.

PLEASE DO NOT USE COMMON NAMES

PHYSOCARPUS. (fye-soh-KARP-us)

Ninebark. Rosaceae. Deciduous Spirea-like shrubs; white or pinkish flowers in umbel-like clusters, followed by inflated pods; hardy in the North.

—**luteus**. **PHYC-9L. 40¢**

Yellow flowers.

—**opulifolius**. **PHYC-9. 30¢**

(*Spirea opulifolia*) 10 ft; fl-heads 2" ac; (IV).

PHYSOSTEGIA. (fy-sos-TE-je ah)

False Dragon-head. Labiatae. Hardy perennials thriving best in a cool moist place with some shade. Beautiful in the border or for cutting.

—**virginiana**. **PHOS-4. 25¢**

Flowers in pretty spikes; purplish red to rose-pink; 4 ft; HP.

—**Rose-lilac**. **PHOS-4R. 25¢**

Variety in one color.

—**White**. **PHOS-4W. 25¢**

Above 1/2 Oz. \$1.00.

PHYTEUMA. (fye-TEW-muh)

Best from seed.

—**canescens**. **PHYT-3. 40¢**

Good rockery plant for late summer display; lavender-blue fls; 6 inches; HP.

—**Charmelii**. **PHYT-4. 35¢**

Fluffy blue heads on 5" stems; 1 ft; HP.

—**comosum**. **PHYT-6. 75¢**

Best of the Phyteumas and not too difficult if given compost of 2 parts fine limestone chips, 1 of course sand, 1 of leaf mould and allow ample root room; water well while in growth in sp; fairly dry in winter, dipping bottom 2" of pot in water for a minute each month till Feb; 6"; dark purple fls; HP. (20 seeds).

—**Scheuchzeri**. **PHYT-17. 30¢**

Easy and showy; bright blue in dense heads; HP.

—**specatum**. **PHYT-20. 50¢**

White fls with greenish tips; dense spikes; 4 ft; HP.

—**Mixed**. **PHYT-X. 25¢**

PHYLLITIS.

—**Scolopendrium**. **PHYF-1. 40¢**

PHYTOLACCA. (fye-toh-LAK-uh)

Phytolacaceae. Pokeberry. Easily grown plants, shrubs or trees; fls in terminal racemes; fruits a fleshy berry; ornamental.

—**americana**. **PHYO-1. 25¢**

Plant to 12 ft; fls bisexual, white or purplish; Me-Fla; (IV); Oz. \$3.00.

—**esculenta**. **PHYO-5. 30¢**

Shoots are edible but must be par-boiled; fr. poisonous; attracts birds; 2-6 ft; HP.

PHYTOLAYA.

—**dioica**. **PHYT-8. 50¢**

PICEA

Spruce. Pinaceae. Pyramidal evergreen trees, many very ornamental while others are valuable timber trees; best from seeds. Picea seed is not helped by any pretreatment; plant direct to permanent beds. (PIS-ee ah).

—**Abies**. **PICA-1. 30¢**

Norway Spruce; sow in spring. Oz. 50¢; .5. \$5.00.

—**Englemannii**. **PICA-11. 50¢**

One of the hardiest Spruces. Oz. \$2.00.

—**glauca**. **PICA-11G. 40¢**

Snowy Mts. Englemann's S. Oz. 90¢; lb.

\$1.00.

- albertiana.** **PICA-12A. 40¢**
 Alberta White Spruce. B. C.-Mont.
 —**glehnii.** **PICA-13. 40¢**
 (alba) White S. (III). Oz. 70¢; lb. \$7.00
 —**glauca.** **PICA-12.50¢**
 —**densata.** **PICA-12D. 30¢**
 —**glehnii.** **PICA-13. 35¢**
 Saghalin Spruce. Very hardy; Japan.
 Oz. \$1.00..
 —**jezoensis.** **PICA-14. 50¢**
 Yeddo S. Ornamental evergreen; North
 Asia; hardy in N. Oz. 75¢; lb. \$7.50.
 —**Hondoensis.** **PICA-14H. 40¢**
 Has shorter dull green lvs. Oz. 80¢.
 —**mariana.** **PICA-19. 50¢**
 (nigra) Black S. (V-II). OOz. \$3.50.
 —**Maximowiczii.** **PICA-21. 50¢**
 Japanese Bush Spruce. Hardy in North.
 Oz. 80¢.
 —**orientalis.** **PICA-27. 50¢**
 Hardy; (IV).
 —**polita.** **PICA-28. 35¢**
 Tiger-tail S. Stiff glossy dark green lvs;
 Japan; hardy N. Oz. 80¢; lb. \$9.00.
 —**pungens.** **PICA-29. 50¢**
 Colorado S. (III). Oz. \$2.00; lb. \$12.00.
 —**glauca.** **PICA-29G. 50¢**
 Leaves bluish. Oz. \$2.50; lb. \$13.00.
 —**rubens.** **PICA-33. 50¢**
 (rubra) Red S. (III). Oz. \$4.00.
 —**sitchensis.** **PICA-36. 50¢**
 Sitka Spruce. (I); B. C. Oz. \$1.50; lb.
 \$16.00.
 —**Smithiana.** **PICA-37. 50¢**
 (P. Morinda) Himalayan Spruce; (IV).
 Oz. \$1.60.

PIERIS.

(PYE-er-iss)

Ericaceae. Evergreen shrubs and small trees native of N. America and Asia. Best in sheltered positions, some in the GH; moist sandy loam with peat or leaf mould best; partial shade suits them; as a general rule seed should be sown during Feb. or March on surface of a seed bed of sand and peat and left uncovered; seedlings require careful attention.

- floribunda.** **PIER-1. 30¢**
 Pretty small evergreen; short spikes; white bells; to 6 ft; one of the hardiest; a good species; HSH.
 —**formosa.** **PIER-2. 30¢**
 Small tree; fls white or pink, drooping panicles; to 20 ft; HSH.
 —**Forrestii.** **PIER-12. 50¢**
 —**japonica.** **PIER-3. 50¢**
 Nice large shrub to 20 ft; fls white; urn-shape; in clusters; HSH; (Andromedia).
 —**nana.** **PIER-4. 50¢**
 (Arcterica nana) Prostrate sh; hardy to (VII) zone.
 —**ovulifolia.** **PIER-5. 30¢**
 Semi-evergreen to 40 ft; sprays of white bells; HSH.
 —**taiwanensis.** **PIER-6. 35¢**
 Compact evergreen; long white nodding fls; 8 ft; TTr
 2-3 ft sh; brilliantly colored flower very pretty, red and yellow; warm sandy spot; W. Australia.

PILEANTHUS.

- filifolius.** **PILE-8. 50¢**
 Brilliantly colored, red and yellow; 2-3 ft; sh; warm sandy soils; W.A.

PILOCEREUS. (pye-loh-SEER-ee-us)

Cactaceae. Formerly Cephalocereus.

- leucostele:** see **Cephalocereus.**

PIMELEA.

(pi-MEE-le-ah)

Rice Flower. Thymelaeaceae. (Banksia) Australia and N. Z.; shrubs; pink, white or reddish fls in terminal heads; lime-free soil; GH; (X).

- humilis.** **PIME-8. 30¢**
 —**saxifraga.** **PIM-13. 50¢**
 —**virgata.** **PIME-15. 40¢**
 White fls followed by soft white berries.

PIMPINELLA.

(pim-pin-NELL-uh)

Anise. Umbelliferae. Best to sow seed direct to soil.

- anisum.** **PIM-1. 25¢**
 ANISE. Used as a condiment and in making liquors; HA; 18"; sow seed in very warm soil in May; best not too rich; dry fl-heads and rub seed out. Oz. 90¢; lb. \$3.00
 —**bella.** **PIM-5. 40¢**
 —**acronemaefolia.** **PIM-2. 40¢**
 —**sikkimensis.** **PIM-15. 40¢**

PINGUICULA.

(pin-GUIK-yew-luh)

Butterwort. Lentibulariaceae. Excellent plants in moist rockery; white, yellow or purple fls.

- alpinia.** **PIM-1. 50¢**
 —**vulgaris.** **PING-12. 50¢**
 Violet or purple fls, ½" long; 6"; HP.

**PINUS**

Pine. Pinaceae. Evergreen trees, some valuable timber trees and some ornamental. Pines are best grown from seed.

- albicaulis.** **PINU-1. 30¢**
 White Bark Pine. Very hardy; Montana. Oz. 50¢; lb. \$4.50.
 —**australis.** **PINU-5. 25¢**
 Long-leaf Pine. Va-Fla. Oz. 50¢; lb. \$5.00
 —**Banksiana.** **PINU-9. 40¢**
 Jack Pine. Lake States seed. Oz. 90¢; lb. \$10.00.
 —**canariensis.** **PINU-11. 50¢**
 Sow seed in 3 ft. beds; (VII). Oz. \$1.25.
 —**caribaea.** **PINU-12. 40¢**
 Slash Pine. (IX). Oz. \$2.20.
 —**Cembra.** **PINU-13. 30¢**
 Swiss Stone Pine. (IV). Oz. 60¢.
 —**cembroides.** **PINU-14. 50¢**
 Pinyon P.; Mexican Stone P. New Mex; hardy in far S. Oz. 90¢.
 —**contorta.** **PINU-16. 40¢**
 Shore Pine. Verpy hardy; germination is helped by stratification. Oz. \$2.00.
 —**latifolia.** **PINU-16L. 50¢**
 Lodgepole Pine. Oz. \$2.00; lb. \$7.00.
 —**Coulteri.** **PINU-18. 30¢**
 Oz. 80¢; lb. \$9.00.
 —**densiflora.** **PINU-19. 35¢**
 Japanese Red Pine. Hardy in N. Oz. 50¢; lb. \$4.00.
 —**flexilis.** **PINU-21. 30¢**
 Limber Pine. Montana. Oz. 60¢; lb. \$4.00.
 —**halepensis.** **PINU-25. 25¢**
 Aleppo Pine. (VIII). Oz. 60¢.
 —**Jeffreyi.** **PINU-29. 50¢**

- Hardy in North. Oz. \$1.00; lb. \$8.00
 —**Khasya.** PINU-30. 40¢
 Oz. \$1.10; lb. \$9.00.
 —**koraiensis.** PINU-31. 50¢
 Korean Pine. Long dark green lvs in clusters; hardy in N but slow growing.
 Oz. 50¢; lb. \$4.50.
 —**Lambertiana.** PINU-32. 40¢
 Sugar Pine. (VIII). Oz. 1.25.
 —**Merkusii.** PINU-37. 30¢
 Tenasserim Pine. (X). Oz. \$1.00.
 —**Montezumae.** PINU-41. 40¢
 (X). Oz. \$1.50.
 —**montana mughus:** see **Mugo.**
 —**monticola.** PINU-43. 40¢
 Western White Pine. (IV). Oz. \$1.50.
 —**Mugo Mughus.** PINU-44. 30¢
 Prostrate shrub; ornamental Oz. 80¢;
 lb. \$7.50.
 —**—rosirata.** PINU-44R. 35¢
 Tree to 80 ft. Oz. 90¢.
 —**muricata.** PINU-53. 25¢
 Bishop Pine. Calif. Oz. 70¢.
 —**nepalensis.** PINU-49. 40¢
 (exclsea) Himalayan White Pine. Oz. 60¢
 —**nigra.** PINU-50. 35¢
 Austrian Pine. (IV). Oz. 80¢; lb. \$5.00.
 —**—calabrica.** PINU-50C. 35¢
 Oz. 50¢; lb. \$3.00.
 —**palustris:** see **australis**, the correct class.
 —**parviflora.** PINU-54. 50¢
 Japanese White Pine. Hardy in N. Oz.
 75¢; lb. \$5.00.
 —**—pentauhylla.** PINU-54P. 25¢
 The wild form of above. Oz. 50¢; lb.
 \$5.00.
 —**palula.** PINU-55. 40¢
 —**Pinaster.** PINU-58. 25¢
 Oz. 50¢; lb. \$1.00.
 —**—Hamiltonii.** PINU-58H. 35¢
 Shorter lvs; larger cones. Oz. 60¢.
 —**Pinea.** PINU-62. 30¢
 Italian Stone Pine. (IX). Oz. 75¢.
 —**—ponderosa.** PINU-63. 35¢
 Western Yellow Pine. (IV). Oz. \$1.00.
 Needs no stratification.
 —**—scopulorum.** PINU-63S. 35¢
 Rocky Mt. Yellow Pine. Oz. 60¢.
 —**—pumila.** PINU-64. 50¢
 Dwarf Stone Pine. Shrub with prostrate
 branches; N. Asia. Oz. \$1.00; lb. \$6.00.
 —**—radiata.** PINU-68. 35¢
 (insignis) Monterey Pine; (VII). Oz. 75¢
 —**—resinosa.** PINU-69. 40¢
 Red Pine. Good ornamental species. Oz.
 \$1.70; lb. \$18.00.
 —**—rigida.** PINU-71. 35¢
 Pitch Pine. (VI). Oz. \$1.00.
 —**Roxburghii.** PINU-72. 40¢
 (P. longifolia) Very beautiful Himalayan
 Pine.
 —**Sabiniana.** PINU-73. 35¢
 Digger Pine. (IX). Oz. 60¢.
 —**Strobus.** PINU-75. 35¢
 White Pine. Wisc. seed; (III). Oz. 50¢.
 —**—sylvestris.** PINU-76. 35¢
 Scotch Pine. Makes pretty specimens.
 Oz. 70¢.
 —**Taeda.** PINU-78. 50¢
 Loblolly Pine. (III). Oz. \$2.00.

I have trouble in getting this seed; anyone in the South having it please advise; the seed should be held in moist peat moss a month before planting out.

- Torreyana.** PINU-97. 35¢
 Torrey Pine. S. Calif. Oz. \$1.25.
 —**—Thunbergii.** PINU-82. 50¢
 Japanese Black P. Best evergreen for sea
 shore planting; 90 ft; (IV). Oz. 90¢; lb. \$5.00

NOTE: Nurserymen wanting Pine seed in quantity, should make inquiry prior to harvesting of the seed, if lower prices are expected.

PIQUERIA.

(pik-WEER-ee-uh)

Compositae. The most popular species is the *Stevia* grown by the Florist; C-7.

- trinervia.** PIQU-4. 50¢
 (*Stevia serrata*) White fls in panicked
 corymbs; Mex to C. Amer; much grown
 by florist for cutting. ¼ Oz. \$1.50.

PISTACIA.

(pis-TAY-shee-uh)

Anacardiaceae. Warm climate trees and shrubs many of which are grown for their nuts, oil and gums. Seed best means of increase; soak seed in warm water for several days before planting.

- chinensis.** PIST-2. 50¢
 15 ft. decid. tr with autumn fol. similar
 to *Rhus succedaneum*; but tr is not toxic.
 100 seed \$2.00.
 —**—lentiscus.** PIST-3. 30¢
 Evergreen tree; 15 f;t (VI). Oz. 50¢.
 —**—Terebinthus.** PIST-7. 30¢
 Small deciduous tree; (VI). Oz. 50¢
 —**—vera.** PIST-10. 35¢
 Pistachio. Deciduous tree of Medit. re-
 gions, grown there for its edible nut, tast-
 ing much like a peanut.
 —**Mixed.** PIST-X. 25¢

PITHECELLOBIUM.

(pith-es-sel-LOH-bee-um) Leguminosae. Warm region trees and shrubs grown in the South for ornament or for their lumber.

- dulce.** PITB-1. 50¢
 Ornamental tree to 50 ft; (X). 100 seeds
 \$2.50.
 —**—Samen:** see *Samanea Samen*.

PITTOSPORUM

Pittosporaceae Sub-tropical evergreen trees and shrubs having very ornamental foliage, fruit and flowers; one a fine GH subject.

Sow in March or April in pans; cool GH or in frames; (pit-TOS-poh-rum).

- crassifolium.** PITT-5. 40¢
 Hardy compact shrub with chocolate-
 brown scented fls; fine on coast; ornament-
 al shrub; 20 ft; (VI); N. Z.
 —**—eugenioides.** PITT-8. 30¢
 Tarata. The lemon scented Matipo,
 round-headed tree, 12 ft high with highly
 scented, creamy white fls; leaves when
 crushed have a strong lemon scent; N. Z.
 —**—Ralphii.** PITT-18. 40¢
 Similar to *P. crassifolium* with larger
 leaves, covered beneath with thick white
 down; fine coastal tree; 10 ft; (VII); N. Z.
 —**—rhombifolium.** PITT-20. 40¢
 Queensland tree; 80 ft; (X); orange-red
 flowers; ornamental.
 —**—tenuifolium.** PITT-21. 30¢
 Tawhiwhi. Small tree; bark and fls
 almost black; pale green foliage, sometimes
 reddish; splendid for hedges; 10 ft; (V).
 Also a good tub-plant.
 —**—argenteum.** PITT-21A. 40¢
 More compact; finely cut silvery leaves;
 very effective; 6-8 ft; (V); N. Z.
 —**—umbellatum.** PITT-24. 35¢
 Tr to 25 ft; fls in many-fl terminal
 umbels; fr ½" ac; N. Z.
 —**—viridiflorum.** PITT-28. 35¢
 Masses of small fragrant cream fls on 20
 ft tree; S. Af; HHTr.

- Tobira.** PITT-23. 35¢
 Sh; 15 ft; white fls; (IX). Oz. 50¢; lb.
 \$2.75.
 —**—undulatum.** PITT-25. 35¢
 Victoria Box. Tree to 40 ft; (X). Oz. 90¢.
 Young plants make effective foliage pot
 plants for the cool house; can be grown

out doors during summer; good nutritive soil; fls white with orange-like rich odor; fresh seed about October.

—Mixed..

PITT-X. 25¢

PITYROGRAMMA. (Gold and Silver F)

—calomelanos.

PITF-1. 50¢

PLAGIANTHUS.

Malvaceae. Trs and shs native of Australia and N. Z.; for South; seeds sown in pans during Feb. germinate freely.

—beruinus.

PLAG-4. 35¢

Deciduous tr; young growth different from the old; white fls N. Z.

PLANTAGO.

(plan-TAY-goh)

Plantaginaceae. Plantain. The seed may not germinate well the first year but promptly the second year.

—latceolata.

PLAN-4. 25¢

Rib-Grass. HP.

PLATANUS.

(PLAT-an-us)

Plane-tree. Platanaceae. Thrives in rich moist soils; some are fine street trees; seeds germinate freely if sown in pans of loamy soil in early spring.

—acerifolia.

PLAT-1. 30¢

London Plane Tr. (ay-ser-if-FOH-lee-ah)

Oz. 50¢

—occidentalis.

PLAT-5. 25¢

Buttonwood. 150 ft; Me-Fla; (IV). c. s.

Oz. 50¢; lb. \$2.00.

—orientalis.

PLAT-7. 25¢

Oriental Plane. 100 ft; not common;

(IV). c. s. Oz. 50¢; lb. \$4.00.

PLATYCARYA.

(plat-ik-KAY-ree-ah)

Juglandaceae. Decid. shs or trs; 40 ft; China.

—strobilacæe.

PLAC-1. 25¢

A Sumach-like bush; fls in slender cone-like catkins; (VI) or possibly (V). Oz. 50¢; lb. \$3.50.

PLATYCODON.

(plat-ik-KOH-don)

Balloon Flower. Campanulaceae. One showy perennial, thriving in loamy soil, in full sun; blooms second year from seed.

—grandiflorum, Mixed.

PLTY-IX. 25¢

White and blue fls; very beautiful; 2½ ft; LC; C-23; or 24; HP. ¼ Oz. \$1.30.

—Blue.

PLTY-IB. 25¢

—Double.

PLTY-1D. 25¢

Double blue star fls; 2 ft; HP.

—roseum.

PLTY-1R. 30¢

New and lovely variety; beautiful satiny pink fls freely produced; 15"; HP.

—Mariesii.

PLTY-1M. 30¢

More dwarf form; pretty blue fls; HP. ¼ Oz. \$1.40.

—White.

PLTY-1W. 30¢

PLECTRITIS.

—congesta.

PLEC-1. 30¢

(Valerianella) Rose fls; 2 ft; (VI); HA.

PLEIOSPILOS.

(plye-oh-SPYE-los)

—Dekenahii

PLEP-7. 50¢

—Neilii.

PLEP-15. 50¢

—optata.

PLEP-19. 50¢

PLEIOTAXIS.

—species.

PLEX-1. 35¢

Very decorative; RG; bright crimson fls; (IX).

PLUMBAGO.

(plum-BAY-goh)

Leadwort. Plumbaginaceae. The flowers are in terminal spikes; not hardy in the North.

—capensis.

PLUM-1. 40¢

Climber; good for GH; blooms on new wood, prune back well in sp; light sky-blue fls; (X); C-22. 100 seeds \$3.00.

POA.

(POH-uh)

Gramineae. Annual and perennial grasses mainly used in lawns.

—amabilis: see *Eragrostis amabilis*.

—caespitosa.

POA-6. 30¢

Tussock Grass from Australia.

—violacea.

POA-11. 25¢

A fine leaf bunch grass that would be useful as edging material; HP; 6".

PODACHAENIUM.

Compositae. C. Amer. and Mex. shrubs or small trees; flowers in small heads of white ray-fls, yellow disk-fls; (IX).

—eminens.

PODA-3. 35¢

Fl-heads 1" across; to 25 ft; Mex; (X).

PODALYRIA.

Leguminosae. South African shrubs; ornamental; (IX).

—sericea.

PODY-8. 35¢

(ser-RISS-ee-ah)

PODOCARPUS.

(pod-oh-KARP-us)

—dacrydioides.

PODC-5. 40¢

Karika, White Pine. Tall N. Z. tree; hardy only in far S; tub plant.

—macrophylla v. Maki.

PODC-12M. 50¢

—Nagi.

PODC-13. 50¢

PODOLEPIS.

—acuminatus.

PODP-2. 35¢

Showy perennial Australian native; with bright yellow fls, 2" ac, and a fringe of deeply cut florets surrounding a darker disk.

PODOPHYLLUM.

May-Apple. Berberaceae. Planted in shady places in wild gardens; HHP.

—emodi.

PODO-5. 50¢

Flesh pink fls; medicinal herb; 1 ft; fr 2" ac, edible; Himalayas.

—peltatum.

PODO-10. 35¢

May-Apple. White fls, 2" ac, nodding; shade; grows readily from seed sown late in fall; 18 inches tall. **PLANTS: 60¢; 3-\$1.40.**

PODRANEA.

—Brycei.

PODR-3. 40¢

(Tecoma Reginae-Sabae) Pale pink fls with red marks; yellow throat; S. Rhodesia.

POINCIANA.

(poyn-see-AH-nuh)

Leguminosae. Beautiful trees and shrubs native of warm regions; (IX).

—Gillesii.

POIN-2. 30¢

Shrub to 20 ft; light yellow fls; popular in S; (IX); sow seed in spring at not less than 75 deg. F; excellent tub plant. Oz. \$1.00; lb. \$7.50.

—pulcherrima.

POIN-4. 40¢

Barados Pride, Dwarf Poinciana. Orange fls; shrub to 10 ft; requires rich sandy soil; soak seeds 24 hours before planting; (X). (pull-KEHR-im-ah) 100 seeds \$2.00.

—flava.

POIN-4F. 40¢

Has yellow flowers.

—regia: see *Delonix regia*.

USE SYMBOLS WHEN ORDERING SEED **POINSETTIA:** see *Euphorbia pulcherrima*.

POLEMONIUM

Polemoniaceae. Perennials grown in the border; easily grown; rich loam; best from seed sown in the fall. Flowers are blue, purplish white or yellowish, often nodding, in terminal corymbs; C-23.

- caeruleum.** **POLE-4. 25¢**
Fern-like lvs; gorgeous sky-blue fls; 3 ft; HP. **Oz. 90¢.**
- cashmirianum.** **POLE-8. 50¢**
Pretty blue fls; bush plant; Kashmir.
- repans.** **POLE-26. 35¢**
- Richardsonii.** **POLE-27. 25¢**
Blue or purplish fls, ½" across; 9"; HP.
- Species Mixed.** **POLE-X. 25¢**

POLYGALA. (poh-LIG-uh-luh)

Milkwort. Polygalaceae. Most are tender annuals and perennials and grown under glass in the North; light soil and partial shade; start seed in peaty soil in cold frame in Spring.

- apopetala.** **POLG-4. 25¢**
Large pink fls, ½" across; 10 ft; sh; (VII).
- myrtifolia v. gr. fl.** **POLG-14. 40¢**
Rich purple fls; 8 ft; GH; (X). **100 seeds \$9.00.**

POLYGONATUM. (pol-ig-on-NAY-tum)

Solomon's Seal. Liliaceae. Creeping roots; thrives in shady places and in deep rich soil; good for the wild garden.

- biflorus.** **PLANTS ONLY.**
Small Solomon's Seal. Bell-shaped yellowish fls; June-July; dark blue br; shade or part; 1-3 ft. **PLANTS: 65¢; 3 for \$1.35.**
- commutatum.** **POLO-4. 25¢**
Great Solomon's Seal. 8 ft; fls ¾" long; this has an epicotyl dormancy and if planted in spring will take a winter to show green leaves; N. Amer; HP; (IV).

POLYGONUM. (pol-LIG-on-um)

Fleece-flower. Polygonaceae. A large genus of annuals and perennial grown in the border or wild garden.

- Bistorta v. vivipara.** **POLY-8V. 40¢**
Snakeweed. HP; 2 ft; white to pink fls in dense spikes 2" long; Alaska.
- amplexicaule.** **POLY-4. 25¢**
Pretty; spikes of small rose-pink or white fls; 3-4 ft; HP; (am-plex-ik-KAW-lah).
- macrophyllum.** **POLY-12. 25¢**
- mollis.** **POLY-13. 25¢**
Shrubby; panicles of white fls; will grow in moist places; 3 ft; HB.
- orientale v. Rubin.** **POLY-15R. 25¢**
Interesting cut-flower or border plant; pretty red fls; warm sunny spot; 1½ ft; HHA; C-8.
- Species Mixed.** **POLY-X. 20¢**
Only the above or other garden kinds.

POLYPODIUM.

- aureum v. Mandaianum.** **POLF-1M. 50¢**
A wavy leaved form.
- subauriculatum.** **POLF-27. 50¢**
- vulgare.** **POLF-31. 50¢**
ledges and boulders; excellent RG; 6-18 in. **Plants: 55¢ each; 3, \$1.50.** Prepaid.
- Common Polypody. Found covering

POLYPTERIS. (pol-LIP-ter-iss)

Othake. Compositae. Erect plants with rose-purple or flesh colored, radiate heads in loose panicles.

—**Hookeriana.**

POLP-1. 25¢
Flower heads 1" ac; rays rose-red; pretty cut flower.

POLYSTICHUM.

(poh-LIS-ti-kum)

Hardy species found in deep woods; prefers limestone and leaf mould; GH species give 3 parts sandy peat and 1 of loam; shade.

—**acrostichoides.** **POLS-1. 50¢**

Christmas Fern. Very ornamental in masses in shade or part shade; 9-18 inches; useful in flower design.

Plants: 50¢ each; 3, \$1.40. Prepaid.

—**Richardii.** **POLS-20. 50¢**

PONCIRUS.

Rutaceae. Small tr from China; hardy in IV zone.

—**trifoliata.** **PONC-5. 40¢**

Trifoliata-Orange. White fls in sp before 2" ac; aromatic; fr. orange-like; used for orange stock; makes good hedges; China.

PONGAMIA.

Leguminosae.

—**pinnaia.** **PONG-3. 40¢**
(glabra) Karum or Poonga Oil Tr. 40 ft; ornamental; for South. **Oz. 95¢.**

POPPY

Papaver. ((pap-PAY-ver) Papaveraceae. Common name for the genus Papaver; these beautiful flowers come in both annual and perennial species and in a wide range of showy colors. They are easily grown but the seed should be either sown in the fall or very early in the spring; they do not take to transplanting; germinates best in dark.

P. ORIENTALE: Hardy perennials with huge flowers in varied colors; seed does not come entirely true to variety but the resulting plants are extra good; seedlings, however, are more robust than the vegetatively increased plants; C-23.



GARTFORD GIANTS

- Beauty of Livermore.** **POPY-30L. 25¢**
Reselected huge crimson flowers.
- Brilliant.** **POPY-30B. 25¢**
Brightfiery red. ¼ Oz. \$1.50.
- Princess Victoria Louise.** **POPY-30VL. 25¢**
A beautiful salmon shade.
- Queen Alexandra.** **POPY-30A. 25¢**
Salmon with large crimson blotch.
- Rembrandt.** **POPY-30R. 25¢**
Mahogany-red flowers.
- Victoria.** **POPY-30V. 25¢**
Beautiful salmon-pink with black blotch.
- Blend of Above.** **POPY-30X. 25¢**

PRICE: Any above varieties, **Oz. \$1.75.**

P. NUDICAULE: Iceland Poppy. Perennials to 1 ft; blooming first year from seed; they rarely last over 3 years but reseed freely; April-June; charming in mass plantings; try them in fields or waste places; they are excellent border flowers; C-24.

—**amurense.** **POPY-28A.** 25¢

Showy butter-cup yellow fls; 2 ft; HP.

—**Coonara Pink.** **POPY-28C.** 25¢

Gorgeous rose tints, soft pink to deep rose; 15"; HP.

—**El Monte.** **POPY-28E.** 25¢

A new beautiful deep tangerine-orange, fringed petals; HP.

—**Gartford Giants.** **POPY-28F.** 25¢

RED CARDINAL. **POPY-28R.** 25¢

NEW. Purest red; very showy; extremely beautiful. ½ Oz. \$1.25.

Crinkly petals; ideal cut-flower if cut in the bud; 2-3 ft. Oz. \$2.00.

—**Gibson's Giants.** **POPY-28G.** 25¢

Lovely orange; huge blooms.

—**Golden Monarch.** **POPY-28GM.** 25¢

—**Kelmscott Strain.** **POPY-28K.** 25¢

Huge blooms, 3" across; very pretty; 3 ft. Oz. \$2.00.

—**Sunbeam.** **POPY-28B.** 25¢

Improved strain; bright yellow.

—**Sanford's Giants.** **POPY-28S.** 25¢

Immense flowers on stiff stems; fine color range.

—**The Emperor.** **POPY-28TM.** 25¢

Giant orange variety.

—**The Empress.** **POPY-28M.** 25¢

Huge salmon-rose and pinks blooms.

—**Unwin's Giants, Mixed.** **POPY-28WX.** 30¢

A choice English grown strain.

—**White.** **POPY-28W.** 25¢

Showy satiny white; distinctive.

—**Pavot d'Islande geant.** **POPY-28V.** 30¢

A new French variety; a giant yellow.

—**Mixed.** **POPY-28X.** 20¢

An improved selection of Gartford, Kelmscott and Sanford types; large fls; sturdy stems; wide color range; really nice. ¼ Oz. \$2.00.

RHOEAS: Shirley Poppy. They have been very highly improved and come in many bright colors; petals crinkled; sow late in the fall in the South; HA to 3 ft.

—**American Legion.** **POPY-38A.** 20¢

Dazzling orange-scarlet with black spot.

—**All Double Fantasy.** **POPY-38F.** 20¢

Double blooms in bright colors.

—**Begonia Flowered.** **POPY-38BF.** 25¢

Large double fls in bright colors.

—**Carnation Flowered.** **POPY-38N.** 20¢

Mixed colors in Carnation-type blooms.

—**Cavalcade.** **POPY-38C.** 20¢

Double Begonia-type blooms in a rich orange-scarlet; huge; 2 ft.

—**Dazzler.** **POPY-38D.** 20¢

Double orange-scarlet; beautiful.

—**Orange King.** **POPY-38K.** 20¢

A beautiful deep orange.

—**Rev. Wilk's Strain.** **POPY-38W.** 25¢

Single flowers in a beautiful color range.

—**Sweet Briar.** **POPY-38B.** 25¢

Double Begonia flowered; in a pretty wild rose pink.

—**Single Shirley Mixed.** **POPY-38SX.** 25¢

—**Shirley Blend.** **POPY-38X.** 20¢

—**Double Shirley Blend.** **POPY-38DX.** 20¢

We must make a 30¢ charge for Catalog. Please do not order by the common name!

OTHER POPPY SPECIES:

—**alpinum.** **POPY-2.** 25¢

Alpine Poppy. Nearly stemless; white or

—**atlanticum.** **POPY-4.** 50¢

Orange fls 2" ac; HP.

—yellow fls; 10"; C-24; LK; HP. ½ Oz. \$1.75.

—**bracteatum.** **POPY-10.** 20¢

Blood-red fls; hairy stems; 3 ft; HP.

—**cardinale fl. pl.** **POPY-12.** 20¢

Cardinal Poppy. Double red fls; HA.

—**glaucum.** **POPY-17.** 25¢

Tulip Poppy. Deep scarlet fls, 4" ac;

2 ft; HA; Persia. Oz. \$1.00.

—**Ma-ei.** **POPY-25.** 25¢

Hardy Poppy from Atlas Mts; anthers black; rose or white fls.

—**pilosum.** **POPY-34.** 25¢

Olympic Poppy. Brick-red fls, 2" ac; 3 ft; HP.

POPULUS.

Poplar. Aspen, Cottonwood. Salicaceae. Deciduous, soft wood bushes and trees; widely planted; quick growing.

—**alba.** **POPU-5.** 35¢

White Plane, Abele; 90 ft.

—**canadensis.** **POPU-15.** 35¢

Carolina Poplar.

—**nigra.** **POPU-40.** 35¢

Black Poplar. 90 ft.

PORTULACA

Moss Rose. Portulacaceae. (port-yew-LAY-kuh) Perennials that are usually treated as hardy annuals in the North; low growing fleshy stemmed plants having brilliant showy flowers in many bright colors; sun loving doing well in the hottest spots where other flowers would soon perish; sow in April where they are to grow; pretty in beds; sow in pans of light soil during March at 65 deg. F or out doors in April; barely cover seed.

—**grandiflorum fl. pl.** **PORT-IDX.** 25¢

Double flowered in rose, red, yellow, and white. ¼ Oz. 75¢.

These makes showy bedding plants for hot dry places; in separate colors they show up very well.

—**Carmine.** **PORT-IDC.** 25¢

—**Rose-pink.** **PORT-IDZ.** 25¢

—**Salmon Shades.** **PORT-IDM.** 25¢

—**Ssaret.** **PORT-DS.** 25¢

—**White.** **PORT-IDW.** 30¢

—**Yellow.** **PORT-IDY.** 25¢

—**Thellussoni.** **PORT-IDT.** 30¢

—**Single Jewels.** **PORT-IJX.** 25¢

The best in single flowers; bright and glistening; all colors. ¼ Oz. 60¢.

—**parana.** **PORT-6.** 25¢

A South Rhodesian species; (IX).

—**Portulaca Blend.** **PORT-X.** 25¢

POTENTILLA.

Cinquefoil. Rosaceae. (poh-ten-TIL-ah). A very large genus most of which are hardy in the North; good as border or rockery plants; sandy soils; flowers yellow, white or red, solitary or in terminal cymes; C-23. sow in Feb. in cold frame or GH., best.

—**aurea.** **POTL-14.** 35¢

(chrysocraspeda) Bright yellow fls, ½" ac; very floriferous; HP.

—**argyophylla.** **POTL-12.** 35¢

Sprays of showy yellow fls, 1" across;

RG; 1 ft; HP.

—**atrosanguinea.** **POTL-24.** 40¢

Scarlet fls; very similar to P. argyophylla; HP.

- coccinea.** **POTL-30. 25¢**
Masses of red flowers in summer; 1 in; HP.
- climane.** **POTL-31. 25¢**
Species from India.
- fragiformis.** **POTL-49. 25¢**
Golden yellow fls, 1" across; 8"; HP.
- fruticosa.** **POTL-52. 25¢**
One of the best shrubs for the RG; yellow rose-like fls; 3 ft; HP.
- fulgens.** **POTL-53. 25¢**
Silvery leaves; trailer; salmon-rose fls; 15"; HP.
- Halacsyana.** **POTL-65. 25¢**
- Hybrids.** **POTL-70F. 25¢**
Double French hybrids.
- macrantha:** see **Hebe marcantha.**
- White Beauty.** **POTL-70WB. 25¢**
- Miss Willmott.** **POTL-70W. 25¢**
Bright carmine flowers.
- Primrose Beauty.** **POTL-70Y. 30¢**
Primrose fls; 2 ft; June-Sept; will bloom in Autumn f cut back.
- nepalensis hybrids.** **POTL-84. 25¢**
Rose and rosy crimson flowers; 2 ft; HP.
- napalensis v. Willmottiae.** **POTL-84W. 40¢**
Dwarf free flowering form; magenta-rose; 2 ft; HP.
- nitida.** **POTL-86. 30¢**
Rose flowers 1" across; mat-forming; 1 inch; RG; Alps; HP.
- recta v. Warrensii.** **POTL-106W. 40¢**
Large bright yellow flowers.
- Herbukil.** **POTL-106H. 30¢**
Flowers in many-flowered clusters, 1" across; 2½ ft; HP.
- iridentata.** **POTL-137. PLANTS**
Wine-leaf Cinquefoil. 4-8"; ev. gr; dandy creeper; bronze lvs in Fall; strawberry-like fls; RG. **PLANTS: 40¢ each; 3-90¢; 25- \$8.00.**
- Potennilla Mixed.** **POTL-X. 25¢**

POTERIUM.

- Rosaceae. Decid. erect sub-shrubs os S. Eu.
- obtusatum.** **POTE-8. 35¢**

PRIMULA

Primroses. Primulaceae. (PRIM-u-lah). A very large genus, mostly low growing with flower parts always in 5s. Varied in types, uses and character; all require a deep rich moist soil with coolness and some shade. Sow seeds either in late fall or early spring. Primula seed is not difficult to germinate; they require a cold spell first; sow seeds in pans or flats and hold over winter in cold frame, this applies to the hardy species especially.

- Pausan Strain.** **PRIM-4FX. 50¢**
This is a special strain of garden Primroses; early flowering; each stem bears a single giant flower and these are produced in such quantities as to almost cover the foliage; the colors range mainly in red, rose, salmon and mauve with a small proportion of white and yellow for contrast; 8 inches. ¼ Oz. \$1.50.
- Blue.** **PRIM-4FB. 80¢**
A special variety in a good blue of above strain coming true from seed.
- acaulis Potsdam Giants.** **PRIM-4P. 75¢**
This is our special strain, each stem bears a giant single flower produced in such quantities that almost covers the foliage; colors mainly red, rose, salmon and mauve shades with a small amount of white and yellow; 8"; HP. ¼ Oz. \$1.00.
- Auricula.** **PRIM-10. 30¢**
Many colors, 1" ac., in umbels; HP; LF.
- Monarch Strain.** **PRIM-10MX. 50¢**
A very choice strain.
- Douglas Prize Strain.** **PRIM-10D. 40¢**
A large flowered strain with many new shades not seen before in other strains. ¼ Oz. \$2.50.
- Dwarf Parisian, Mixed.** **PRIM-10FD. 80¢**
This strain is similar to the Parisian in characteristics but is also adapted to indoor culture; the rich color range contains extra blue shades; 6 inches high.
- Beesiana.** **PRIM-13. 40¢**
Intense lilac-purple with yellow eye; 16"; HP; China. Oz. \$3.00.
- Buelesiana.** **PRIM-14. 40¢**
Rose and apricot shades; 2 ft; HP. ½ Oz. \$2.00.
- Bulleyana.** **PRIM-15. 40¢**
Deep yellow fls, 1" ac in whorls; 2½ ft; HP; LF.
- burmanica.** **PRIM-18. 40¢**
Reddish purple fls with orange eye, ½" across; 2 ft; TP.
- capitata.** **PRIM-19. 40¢**
Deep purple fls, ½" ac in dense heads; 18"; Himalayas.
- choinantha.** **PRIM-23. 50¢**
Ice white fls on 9" stems; April.
- candelabara Hybrids.** **PRIM-18. 40¢**
Deep rich colors; purple, crimson to yellow; HP.
- cashmiriana:** see **P. denticulata.**
- chungensis.** **PRIM-25. 50¢**
Yellow fls in terminal umbels; China; HP.
- Cockburniana.** **PRIM-28. 40¢**
Orange fls, 1" ac; umbels; 1½ ft; HP.
- corusoides.** **PRIM-31. 40¢**
Rose fls; 1 ft; May-June; Siberia.
- denticulata.** **PRIM-40. 35¢**
Dense heads of violet fls; early spring; 10"; HP; sow during July-Aug. out doors in a shady place.
- cashmiriana.** **PRIM-40C. 40¢**
More farinose, rich purple fls with yellow centers; HP.
- Dark Colors.** **PRIM-40DC. 50¢**
A new East German strain; good.
- Hybrids.** **PRIM-40H. 50¢**
Large flowered hybrids from East Germany.
- Rubin.** **PRIM-40R. 40¢**
A deep ruby colored variety.
- elator.** **PRIM-45. 50¢**
Oxlip P. Yellow fls, 1" ac; 8" tall; Persia; HP.
- All P. elator var. sow in March, indoors, light soil, cover lightly with sifted leaf-mould or milled sphagnum or sow out doors in July-Aug. in shaded place.
- atrocaerulea.** **PRIM-45A. 50¢**
Orange-red fls; 8 inches; HP.
- elongata.** **PRIM-47. 50¢**
Golden yellow fls, 1" ac; 1 ft; Sikkim.
- Elwesiana.** **PRIM-48. 40¢**
Violet fls; 6"; Himalayas; HP.
- farinosa.** **PRIM-50. 50¢**
Bird's-Eye P. Lilac-purple fls with yellow eye; 12"; HP.
- floribunda.** **PRIM-54. 40¢**
Butter-cup P. Yellow fls, ½" ac; good GH; 8"; Himalayas.
- Florindae.** **PRIM-56. 40¢**
Sulphur-yellow; drooping, in terminal umbels; 4 ft; HP.
- frondosa.** **PRIM-60. 50¢**
Rosy lilac fls in many flowered umbels; Balkans; HP.
- glaucescens v. calycina.** **PRIM-63C. 40¢**
More robust, larger fls; r-ose to purple; 6"
- aponica.** **PRIM-85. 35¢**
Purple, rose, white; in umbels; 1 ft; HP.

- Best mixed colors; 2 ft; Japan.
 —**Etal Hybrids.** PRIM-85E. 40¢
 Choice selection.
 —**Millar's Crimson.** PRIM-85C. 50¢
 20 inches high; HP.
 —**Postford White.** PRIM-85W. 50¢
 By far the best white in the species.
 —**Mixed.** PRIM-85X. 30¢
 —**Helodoxa.** PRIM-89. 40¢
 Golden yellow fls; 2 ft; HP. ½ Oz. \$2.50.
 —**integrifolia.** PRIM-74. 50¢
 Rose-lilac fls, 1" ac; in umbels; 2" high;
 Alps; HP.
 —**hirsuta.** PRIM-70. 50¢
 Rose, lilac, white fls, 1" ac, umbels; 4".
 —**kewensis.** PRIM-89. 40¢
 It is a good pot plant and can be grown
 in either a cold or warm house. Sow in
 Feb. or March in warm house; carry plants
 in a cold frame over summer months. A
 shining yellow, with foliage silvered with
 farina.
 —**kewensis, Thurgold.** PRIM-88T. 50¢
 Improved variety with bright yellow fls;
 excellent GH plant.
 —**Kingil.** PRIM-90. 40¢
 Scarlet fls in umbels; 8"; HP.
 —**longiflora.** PRIM-100. 50¢
 Violet fls with yellow throat; 1" ac; 1 ft
 high; Alps; HP.
 —**Ruby-red.** PRIM-100L. 75¢

MALACOIDES: Greenhouse Primulas.

- These are nearly hardy and should not
 be grown too warm; they are grown as
 pot plants. For winter plants, start seed
 about the middle of June; use a sandy soil
 they germinate readily. Prick off early
 and watch for damping-off, ventilate at
 night or place seedling flat up in the air
 at night, for circulation. They should be
 ready for 5" pots by October
 —**Congratulations.** PRIM-100C. \$1.00
 A new brilliant salmon-pink; compact
 growth.
 —**Brillancy Improved.** PRIM-100B. \$1.00
 Lilac changing to purple; large flower;
 a sturdy grower.
 —**Rose Bouquet.** PRIM-100R. \$1.00
 Brilliant carmine-rose; compact grower.
 —**Thurgovia Reselected.** PRIM-100T. \$1.00
 Brilliant carmine-rose; very floriferous;
 base branching.
 —**White Giant.** PRIM-100W. \$1.00
 Large flowered pure white; tall robust
 plant.
 —**Mixed.** PRIM-100X. 75¢
 A hand made blend for greenhouse pot
 plants; not a cheap mixture. 1/16 Oz.
 \$11.00.
 —**marginata.** PRIM-101. 40¢
 Lovely lavender fls; margined foliage;
 spring bloomer; RG; HP.

OBCONICA: Greenhouse Primulas.

- These make the best of flowering pot
 plants; easy to grow too; seed is very vari-
 able in germinating, so start them early;
 for regular GH growing sow Dec-June;
 1/32 oz. for 2,000 plants; seed must be fresh;
 germ. in 30-40 days at 60-90 Fah; do not
 cover seeds, they need light, nor use leaf
 mold, peat or fresh manure; best soil, steri-
 lized mixture of half well decayed compost,
 half turf; press seed lightly and cover with
 glass and sheet of newspaper but on dull
 days remove paper; avoid lime.
 —**Berlin Red.** PRIM-113B. 75¢
 A beautiful German strain in bright red.
 —**Fassbender Red.** PRIM-113F. \$1.00

- Deep crimson; large flowers.
 —**Friesdorfer Lachs.** PRIM-113D. \$1.00
 One of the very best salmons.
 —**Grower's Pride.** PRIM-113GP. 50¢
 —**Konigsee.** PRIM-113K. \$1.00
 Pure blue.
 —**Pearl of Niederrhein.** PRIM-113N. \$1.00
 Dark red with a copper sheen; compact
 habit; medium sized flowers.
 —**Snowstorm.** PRIM-113S. \$1.00
 Pure white.
 —**Wyaston Wonder.** PRI-M-113W. \$1.00
 Dark crimson; extremely large flowered;
 compact habit.
 —**Finest Mixed.** PRIM-113X. 75¢
 Very choice. 1/16 Oz. \$58.50.
 —**oblivia.** PRIM-118. 50¢
 White fls with yellow ring.
 —**Parryii.** PRIM-120. 40¢
 Purple with yellow eye; 1 ft; Rocky Mts;
 HP.
 —**Payneura.** PRIM-122. 30¢
 —**pulverulenta.** PRIM-131. 40¢
 Purple fls with orange-brown eye; umb-
 els; 8"; HP.
 —**Bartley Strain.** PRIM-131B. 50¢
 A handsome and strong growing type
 with tiers of beautiful pink, salmon and
 rose colored fls; fine in damp, shady
 places.
 —**reticulata.** PRIM-135. 35¢
 Himalayan species.
 —**rosea grandiflora.** PRIM-134G. 50¢
 Large bright rose fls; new seed in July.
 —**Roylei.** PRIM-137. 50¢
 Purplish crimson fls.
 —**saphirina.** PRIM-133. 50¢
 A very rare species with rich bluish
 mauve flowers.
 —**saxatilis.** PRIM-139. 40¢
 Heads of bright pink fls in clusters; 10".
 —**secundiflora.** PRIM-144. 40¢
 Deep violet fls, one-sided umbels; 8"; HP.
 —**Sieboldii.** PRIM-148. 50¢
 White, rose, purple, 2" ac; 8"; Japan; HP.
 —**sikkimensis.** PRIM-150. 40¢
 Yellow fls, 1" ac; umbels; 2 ft; Himalay-
 as; HP.

POLYANTHUS PRIMROSES

The Polyanthus Primroses are probably
 hybrids between *P. elatior*, *veris* and *vul-*
garis. They are the hardiest and most
 easily grown of all Primulas, succeeding in
 just about all climates, even in Zone II.
 The seed can be sown any time but best
 in spring and early summer; this will pro-
 duce plants that will flower the following
 summer. Seed bed best half leaf-mould
 and half good garden soil or peat and garden
 soil with some sand, it must be rich in
 humus; keep seed pans shaded; germina-
 tion in about 15 days.

PACIFIC GIANT POLYANTHUS

- Scarlet & Bright Red.** PRIM-125PS. \$2.00
 —**Blue Shades.** PRIM-125PB. \$2.00
 —**Yellow & Bronze.** PRIM-125PY. \$2.00
 —**PINK Shades.** PRIM-125PK. \$2.00
 —**ROSE SHADES.** PRIM-125PZ. \$2.00
 —**FORMULA BLEND.** PRIM-125PX. \$2.00
 1/64 Oz. \$4.00; 1/32 Oz. \$7.00.

The following varieties are grown in
 Germany and are extra choice strains and
 recommended to the average grower.
 —**veris.** PRIM-165. 40¢
 (*P. vulgaris*) Common Cowslip; HP.
 —**veris hybrids.** PRIM-165H. 30¢

- Cowslip P. Extra large flowering; 8"; HP.
 —Giant Munstead. PRIM-165M. 50¢
 —Gold Laced. PRIM-165GL. 30¢
 Extra fine mixed. $\frac{3}{4}$ Oz. \$3.00.
 —Red Shades. PRIM-165R. 35¢
 Scarlet and crimson shades. $\frac{1}{2}$ Oz. \$5.00.
 —Giant White. PRIM-165W. 35¢
 Creamy white with yellow eye. $\frac{1}{2}$ Oz. \$5
 —Giant Munstead. PRIM-165GM. 50¢
 White, primrose and yellow shades. $\frac{1}{2}$ Oz. \$4.50.
 —Mahogany. PRIM-165G. 50¢
 —Giant Primrose. PRIM-165GP. 50¢
 Primrose-yellow flowers. $\frac{1}{2}$ Oz. \$3.00.
 —Colossal Superb. PRIM-165X. 75¢
 The largest flowered Polyantha; this blend contains in addition to the main colors. many soft pastel shades in scarlet, bronze shades, soft rose-pink, creamy white etc. $\frac{1}{2}$ Oz. \$4.50.

SINENSIS: Chinese Primroses; GH.

- These are strictly pot plants, grown under glass; seed should be started in April; sow in pans or flats, keep at about 60 F. The seed does not germinate at one time; prick seedlings out as they reach a little size; keep plants in a moist atmosphere till rooted; 50 deg. F at night is good growing temperature; water potted plants with care
 —Pure White. PRIM-151W. \$1.00
 —Beauty of Nice. PRIM-151N. \$1.00
 Beautiful salmon-pink.
 —Dazzler. PRIM-151D. \$1.00
 Bright orange-scarlet.
 —Defiance. PRIM-151F. \$1.00
 Velvety crimson with brown eye.
 —Duchess. PRIM-151C. \$1.00
 Rosy white with dark eye.
 —The Czar. PRIM-151Z. \$1.00
 Dark blue.
 —Choice Fringed Mixed. PRIM-151X. 75¢
 The best blend. $\frac{1}{16}$ Oz. \$8.50.

- vaginata. PRIM-163. 40¢
 Bright purple shaded blue.
 —Vialii. PRIM-169. 50¢
 ornamental for winter use; HHA. Oz \$1.35.
 —viscosa. PRIM-170. 50¢
 Rose-lilac, frag. fls, $\frac{1}{2}$ " ac; in umbels, late flowering; 8"; Alps; HP.
 —Veitchii. PRIM-162. 40¢
 Fair sized flower heads of purple-rose blooms with clear yellow eye and yellow stamens; HP. $\frac{1}{2}$ Oz. \$2.75.
 —vulgaris v. coerulea. PRIM-173C. 50¢
 (P. caulis) Dark blue, $1\frac{1}{2}$ " across; 6"
 —alba. PRIM-173A. 40¢
 —Waltonii. PRIM-174. 50¢
 Violet fls, $\frac{1}{2}$ " ac in umbels; 2 ft; Tibet.
 —Wattii. PRIM-176. 40¢
 Himalayan species; purple fls with white centers; 6"; HP.
 —Wilsonii. PRIM-181. 40¢
 Purple fls, $\frac{3}{4}$ " ac; 2 ft; China; HP.
 —yargongensis. PRIM-185. 50¢
 Deep purple; 4"; nodding umbels; Tibet.
 —Hardy Primula Mixed. PRIM-X. 30¢
 All hardy species.

PRITCHARDIA. (prit-CHARD-ee-uh)

- filifera. PRIT-1. 50¢
 Palm. 100 seeds \$3.00; 1,000, \$8.00.
 —robusta. PRIT-3. 50¢
 Palm. 100 seeds \$3.00; 1,000, \$8.00.

PROBOSCIDEA: (pro-bo-SID-ee-ah)

Unicorn Plant. Martyniaceae. Annuals and perennials with large, long stemmed lvs and large purple flowers and Okra-like fruits that can be used the same as Cucumbers.

Sow the seed where they are to grow but in the North they would have to be started indoors in pots or boxes.

- Jussieui. PROB-2. 40¢
 Creamy white to violet fls, 2" long; HA; transplants; space 2 ft.
 —petiolaris. PROB-20. 50¢
 —Mixed. PROB-X. 30¢
 Easy; showy yellow or rose fls; seed pods ornamental for winter. Oz. \$1.35.

PROSOPIS.

- Lannesiana: see serrulata v.L.
 —glandulosa. PROB-1. 40¢
 (P. juliflora v. glandulosa) Mesquite. Sh to 9 ft or tr; Tex-Calif. Oz. \$1.00.

PROTEA.

(PROH-tee-ah)

Proteaceae. Trees, shrubs and stemless perennials from S. Af. Will not stand lower than 18 deg. F.; (IX); best rooted plants come from seed.

- Abyssinica. PROT-1. 50¢
 From S. Rhodesia; (10 seeds).
 —angolensis. PROT-2. 50¢
 Collected in South Rhodesia.
 —compacta. PROT-4. 50¢
 S. Af. sh; bracts pink to carmine.
 —cynaroides. PROT-3. 40¢
 King of the P. By far the largest fls and handsomest lvs; buds before opening, resemble Pine cones; 3-4 ft; looks much like a Rhododendron; plants from seed vary in color; some silvery white bracts, others deep pink.
 —longiflora. PROT-11. 50¢
 Brightest of all P. In best types it is a vivid reddish pink; fls wide open when in full bloom; excellent cutflowers.
 —mellifera. PROT-13. 50¢
 A popular species; one of the daintiest; bracts pink and glossy and translucent; 2 variations, one white or pale green, other deep pink or red; graceful; 9 ft; cups 5" deep, 3" ac; HHP.
 —neriifolia. PROT-16. \$1.00
 Very popular; deep rose-pink bracts that curve over fls and are heavily fringed with dark brown, almost black 'feathers'; also white form. Seeds 10¢ each.

- Mixed. PROT-X. 25¢

PRUNUS

(PRON-us). Rosaceae. Includes the stone-fruits: Plums, Peaches, Cherry-laurels. Ornamental flowering kind especially listed. The species are best from seed; if germination is slow, put seeds in open ground.

CAUTION: Prunus seed want germinate after drying out so plant fresh seed; order by August so they can be sent promptly on arrival; we hold this seed in moist sand but they cannot be planted too soon.

MICHIGAN: The State Dept. of Agriculture prohibits the selling of Prunus seed to Michigan buyer.

- Amygdalus. PRUN-6. 40¢
 Almond. (P. communis). Oz. 50¢; lb.
 —apetala. PRUN-9. 35¢
 Sh or small tr; Japan.
 —Armeniaca. PRUN-9. 35¢
 Apricot. c. s. lb. \$1.50.
 —avium. PRUN-12. 35¢
 Sweet Cherry. Lb. \$2.00.
 —Buergeriana. PRUN-17. 50¢
 Cherry to 25 ft; fls small black fr; (IV); or (III); Korea. Oz. 50¢; lb. \$3.50.
 —campanulata. PRUN-18. 40¢
 Very pretty cherry to 25 ft; dark deep

rose-red fls; S. Japan. Oz 50¢; lb. \$3.50.

—*cerasifera*. PRUN-21. 25¢

Cherry or Myrobalan Plum. Used as a stock in grafting. Special price in quantity lots. c. s. Oz. 50¢; lb. \$1.80; (25 lbs, \$20.00, not prepaid).

—*airopurpurea*. PRUN-21A. 30¢

(Pissardi) Purple-leaved.

—*glandulosa*. PRUN-1. 50¢

Flowering Almond, Sh; 3-5 ft; white to pink fls; red fruits; Japan.

—*Grayana*. PRUN-43. 40¢

Similar to Padus; tr to 30 ft; fls in racemes, white; (III); JJap. Oz. 50¢; lb. \$3.50.

—*domestica*. PRUN-37. 30¢

Common Plum. Lb. \$1.50.

—*hisauchiana*. PRUN-44. 50¢

—*incisa*. PRUN-49. 50¢

Small Cherry tr or can be grown as a bush; fls nodding, red and pink; (III); Japan. Oz. 75¢; lb. \$5.50.

—*itozakura*. PRUN-50. 50¢

—*ascendens*. PRUN-50S. 50¢

—*ilicifolia*. PRUN-48. 50¢

Islay. 30 ft ev. tr or sh; white fls; S. Calif 30 seeds to ounce.

—*japonica*. PRUN-53. 40¢

Flowering Almond. Dwarf fl-tree; fls 1" ac bluish or pink, sometimes double; red fr; Chhina. Oz. 80¢; lb. \$5.00.

—*kinkiensis*. PRUN-52. 50¢

—*kosiensis*. PRUN-51. 50¢

—*kuliensis*. PRUN-54. 50¢

—*Laurocerasus*. PRUN-58. 35¢

Cherry Laurel. Planted in the South; (VII). Oz. 75¢; lb. \$2.75.

—*lusitanica*. PRUN-55. 35¢

c. s. Oz. 50¢; lb. \$3.75.

—*lannesiana*: see *P. serrulata* var.

—*Mahaleb*. PRUN-70. 35¢

Ornament and stock for other Cherries. Lb. \$2.50. Prices subject to change on all grafting stock material; ask for prices in larger quantities; order early.

—*Maximowiczii*. PRUN-73. 40¢

Cherry tr to 50 ft; fls whitish, ¾" ac; (III); Manchuria. Oz. 90¢.

—*Mume*. PRUN-78. 40¢

Japanese Apricot. Hardy in the North; fragrant fls. Oz 60¢; lb. \$3.50.

—*bungo*. PRUN-78B. 40¢

—*nipponica*. PRUN-82. 40¢

Cherry. Tr to 20 ft; white or pale pink fls; (III) Japan. Oz. 90¢.

—*Padus*. PRUN-85. 35¢

European Bird Cherry. Ornamental. Oz 75¢; lb. \$5.00.

—*pendula*. PRUN-87. 40¢

Japanese Pendulous Cherry. Oz. 40¢; lb. \$4.00.

—*Persica v. densa*. PRUN-88D. 40¢

Chinese Peach.

—*Iceberg*. PRUN-89B. 50¢

A beautiful ornamental white flowered variety from California.

—*Pseudocerasus serrulata*. PRUN-94S. 40¢

Small Cherry to 25 ft; fruit red; edible; China. Oz. 60¢.

—*prostrata*. PRUN-93. 35¢

Indian collected seed.

—*salicina*. PRUN-107. 40¢

Japanese Plum. Oz. 40¢; lb. \$2.00.

—*Sargentii*. PRUN-108. 35¢

Handsome hardy tree; Japan. Oz. 60¢; lb. \$5.00.

—*serotina*. PRUN-109. 35¢

Sakhalin Cherry. Bright pink fls; hardy in North; very good. Oz. 60¢; lb. \$6.00.

—*serrulata*. PRUN-103. 40¢

Japanese Cherry. White fls, 1½" across. Oz. 60¢; lb. \$3.50.

—*Lannesiana*. PRUN-103L. 35¢

Ohlama Cherry. Differs from *P. serrulata*

in its pink fragrant fls, pinkish in bud, and white when open; fine. Oz. 65¢; lb. \$4.50.

—*spinosa*. PRUN-111. 25¢

Blackthorn. Ornamental tr; 10 ft. c. s. Oz. 50¢; lb. \$2.00.

—*Ssiori*. PRUN-112. 50¢

Racemose Cherry tr to 50 ft; white fls; (III); Asia. Oz. 90¢.

—*subhirtella*. PRUN-114. 40¢

Rosebud Cherry. Small tr to 30 ft; fls in profusion, ¾" ac, pink to nearly white; (III); beautiful; Japan. Oz. 60¢; lb. \$4.00.

Perhaps the most beautiful of all the Japanese Cherries.

—*tomentosa*. PRUN-119. 40¢

Bush Cherry. Bush or small tr; fr edible (IV); China. Oz. 90¢; lb. \$5.00.

—*virginiana*. PRUN-123. 35¢

Choke-Cherry. c. s. Oz. 40¢; lb. \$2.00.

—*vedgensis*. PRUN-129. 35¢

Tokyo Cherry. The Cherry so generally planted in parks, temple grounds and streets of Tokyo; single white and pink fls. Oz. 60¢; lb. \$5.00.

—*Yamadei*. PRUN-128. 50¢

PSEUDOLARIX. (seu-doh-LA-raks)

Golden Larch. Deciduous; excellent trees; best in moist, well-drained soil and sheltered sunny position.

—*amabilis*. PSEL-1. 35¢

(Kampferi); Golden Larch. Oz. 90¢.

PSEUDOTSUGA. (seu-doh-TSEU-gah)

Pinaceae. Evergreen coniferous trees; resemble Abies in growth; best from seed.

—*japonica*. PSEU-3. 50¢

Japan. Oz. 90¢.

—*taxifolia v. caesia*. PSEU-5C. 50¢

Douglas Fir. Bluish green lvs.....Oz. \$3.00; lb. \$20.00.

—*glauca*. PSEU-5G. 50¢

Rocky Mt. form with smaller lvs and cones. Oz. \$3.00; lb. \$21.00.

—*viridis*. PSEU-5V. 50¢

Green lvs; large cones. Oz. \$3.00; lb. \$21.00.

PSIDIUM. (SID-ee-um)

Guava. Myrtaceae. Tropical trees and shrubs grown in the far South for ornament and their edible fruits, much used in jellies and preserves; easily grown any where oranges are grown.

—*guajava*. PSID-4. 25¢

The common Guava; (IX).

—*oraca*. PSID-12. 50¢

—*Mixed*. PSID-X. 25¢

Many kinds.

PTELEA. (TEE-lee-ah)

Rutaceae. Hop-Tree. Small shrubs and trees of N. Amer. Flowers in short clusters greenish white, followed by fruits; some shade; porous soil. Sow seed in fall best or early spring; germination is never good for many seeds are infertile.

—*trifoliata*. PTEL-4. 25¢

Shrub or tree to 25 ft; N. Y-Fla; (IV). sow seed out doors in Spring. Oz. 80¢; lb. \$4.00.

PTERIDIUM.

—*aquilinum*.

PLANTS: 50¢ each; 3 for \$1.35.

PTERIS. (TEE-ris)

Brake Ferns. Tender; those suitable for GH best in ordinary loam with some peat and a little sand; half shade.

- cretica* v. *Wimsettii*. **PTER-8W.** 40¢
One of the best GH or house ferns; not too dry atmosphere.
- albo-Vineata*. **PTER-8A.** 40¢
—*cristata*. **PTER-8C.** 40¢
—*nivertoniana*. **PTER-8R.** 40¢
—*ensiformis*. **PTER-11.** 50¢
Queen Fern. Warm GH; 15"; variable.
- longifolia*. **PTER-16.** 50¢
—*quadriaurita*. **PTER-22.** 50¢
—*Parkeri*. **PTER-21.** 50¢
—*argyrea*. **PTER-22A.** 75¢
Segments with whitish bands; good GH.
- Roweri*. **PTER-23.** 50¢
—*serrulata cristata nana compacta*. **PTER-24N.** 50¢
—*tremula*. **PTER-26.** 50¢
—*umbrosa*. **PTER-29.** 50¢

- PTERITIS.** (tee-RIT-is)
Excellent garden ferns.
- nodulosa*. **PTEF-2.** 50¢
Ostrich Fern. For sun or shade; a very graceful fern, growing to 5 ft; a sight in the woods or wild garden where the sun gets thru the trees; set top of crown just above surface.
- nodulosa*. **PLANTS:** 55¢ each; 3 for \$1.50.

- PTEROCARYA.** (tehr-oh-CAY-ree-uh)
Wing-Nut. Juglandaceae. Deciduous trees of Asia; very fast growers. Seeds are best means of increase.
- fraxinifolia*. **PTEY-2.** 50¢
Caucasian Wing-Nut. Tr to 100 ft; fls in racemes 2 ft long. **Oz.** \$1.50.

- PTEROCEPHALUS.** (tehr-oh-SEFF-al-us)
Dipsacae. Draba-like perennials grown in the rocky; they are native of the Pyrenees; 2-3 inches high; mat-like growth.
- parnassi*. **PTERC-3.** 50¢
Spreading HP; 3"; purplish pink fls, 1" across; R-G.

- PTEROSPERMUM.**
Sterculiaceae. Trees and shrubs of tropical Asia.
- chelinoides*. **PTEX-5.** 40¢
India. **Oz.** \$1.25.

- PLYCHOSPERMA.**
Palmaeae. Feather Palms.
- elegans*. **PTYC-3.** 75¢
(Seaforthia). Brazil.

- PTYCHOSPERMA Macarthurii:** see *Actinoplaeus*.

- PUERARIA.** (peu-er-AY-ri-ah)
—*Thunbergiana*. **PUER-3.** 50¢
Kudzu Vine. Rank growing vine with violet fls in July; grows to 60 ft; hardy only into (VI) zone. **Oz.** 60¢; lb. \$3.50.

- PUMELIA.** **PUME-4.** 30¢
—*humilis*.
Rice Flower. Clusters of white fls; light green foliage; shrub to 4 ft; Australia.

- PUNICA.**
Punicaceae. Trees and shrubs hardy in (VII) zone; ornamental and widely grown for its edible fruits; sow seed in the Spring.
- Granatum*. **PUNI-1.** 30¢
Pomegranate. 20 ft; orange-red fls; 1½" ac; (IX). **c. s. Oz.** 50¢; lb. \$4.00.
- nana*. **PUNI-1N.** 30¢
A dwarf form suitable for GH or in yards

- PURSHIA.** (PURSH-ee-uh)
Antelope-bush. Rosaceae. Western native shrubs with small yellowish flowers, probably best for its clustered leaves. It grows in arid lands from Ore. to Calif.

- tridentata*. **PURS-1.** 25¢
Deciduous shrub to 6 ft; silvery leaves; (IV).

- PUTTERLICKIA.**
South African shrubs.
- pyracantha*. **PUTT-12.** 50¢
Ornamental fruits; 5 ft; TSH.

- PUYA.** (PEW-yuh)
Bromeliaceae. Rare and interesting plants native of Chile; pineapple-like plant; no frost.
- spatacea*. **PUYA-16.** 60¢

- PYCNOSTACYS.**
—*urticifolia*. **PYCN-5.** 40¢
Bright blue fls in dense spikes; 5 ft; GH; (X); TP.

- PYRACANTHA.** (pye-ruh-KANTH-uh)
Rosaceae. Fire-thorn. Thorny evergreen shrubs related to *Crataegus*; ornamental; hedges; showy fruits; (X); seed best means of increase for species.

- angustifolia*. **PYRA-1.** 30¢
Sh to 12 ft; China. **c. s. Oz.** 50¢; lb. \$5.00
- atalantoides*. **PYRA-3.** 50¢
Showy fruits; white fls; 10 ft; HSH; (IV).
- coccinea*. **PYRA-5.** 30¢
20 ft; S. Europe.

- Lalandii*. **PPYRA-5L.** 40¢
More vigorous form with orange red fruits. **Oz.** 90¢; lb. \$3.50.

- crenato-serrata*. **PYRA-9.** 30¢
Chinese Firestone. To 10 ft; white fls in many corymbs; China; (VIII).

- yunnanensis*. **PYRA-9Y.** 35¢
(VIII). **c. s. Oz.** 50¢; lb. \$5.00.

- crenulata*. **PYRA-10.** 30¢
Nepal Firethorn. To 20 ft; (sym. *Cotoneaster* and *Crataegus*).

- taliensis*. **PYRA-10T.** 30¢
Yellow fruited Tare-thorn.

- lalandei*. **PYRA-19.** 30¢
(coccinea) ½ **Oz.** \$1.50.
- pannosa*. **PYRA-20.** 40¢

PYRETHRUM: *Chrysanthemum coccineum*

- PYROLA.**
Pyrolaceae. Shinlef. Used in wild garden or woods like Wintergreen; hardy.

- elliptica*. **PYRO-10.** 40¢
10 inches; white fls; N. Amer.

- asarifolia* v. *incarnata*. **PYRO-2C.** 40¢
Kidney-shaped lvs; 1 ft; pink or rose fls; found in swamps; Alaska.

PYRUS: see *Malus*.

QUAMOCLIT

(KWAM-oh-kilt) Star Glory. Convolvulaceae. Annual and perennial twining vines, grown as tender annuals in the North. They are used mainly for rapid growing climbers, thriving in a good light soil and in full sun. sow seed in small pots early in April; thin to one and do not disturb roots.

- coccinea*. **QUAM-1.** 25¢
Star Ipomoea. 10 ft; TA.

- hederifolia*. **QUAM-1H.** 25¢
Scarlet fls with yellow throat; 10 ft; HHA.
Ivy-leaved type.

- glandulifera.** **QUER-61.** \$1.00
Japanese Charcoal Tree.
- lobata.** **QUAM-2.** 25¢
Excellent climber for cool GH or sheltered varanda; bright crimson fls changing to orange-yellow; start seed in small pots March-April or plant out doors in June; 10 ft; TP.
- pennata.** **QUAM-4X.** 25¢
Cypress Vine. Showy fls in following colors; vine to 20 ft; TA. **Oz.** 65¢; **lb.** \$5.00.
- White.** **QUAM-4W.** 25¢
- Scarlet.** **QUAM-4S.** 25¢
Oz. 70¢.
- Sloteri.** **QUAM-6.** 25¢
Cardinal Climber. Red fls with white throat, 2" long; vine to 20 ft; TA. **Oz.** 90¢; **lb.** \$6.50.
- Sloteri hybrids.** **QUAM-6H.** 25¢
- Hearis and Honey.** **QUAM-7HH.** 25¢
All-day bloomer with color ranging from pink-orange to pinkish red and rose-pink.
- Mixed.** **QUAM-X.** 25¢
Above species and varieties.

QUERCUS.

Oak. Fagaceae. Plant seed in the fall or stratify if planted in spring; if seed is not fresh, soaking in water for 24 hours will help.

- acuta.** **QUER-1.** 50¢
Japanese Ev. Gr. Oak. Small tree; Japan.
- borealis.** **QUER-12.** 50¢
Northern Red Oak. To 80 ft. **Lb.** \$1.00.
- Cerris.** **QUER-17.** 50¢
Turkey Oak; 100 ft. **Lb.** \$1.25.
- coccinea.** **QUER-21.** 50¢
Scarlet Oak. Tr to 80 ft; Me-Mo; fresh seed only; would like to know of trees if you have any.
- dentata.** **QUER-22.** 50¢
Tree to 80 ft; Japan, China.
- glauca.** **QUER-60.** 75¢
Japanese Charcoal Tree. 50 ft.
50 feet; Asia.
- Ilex.** **QUER-40.** 50¢
Holly or Holm Oak. 60 ft. **Lb.** 90¢.
- mongolica grosseserrata.** **QUER-63G.** 70¢
Mongolian Oak. 100 ft; Korea.
- myrsinaefolia.** **QUER-66.** 75¢
60 feet; China.
- palustris.** **QUER-68.** 50¢
Pin Oak. 80 ft. **Lb.** \$1.90.
- Robur.** **QUER-73.** 50¢
English Oak. (pedunculata) 80 ft. **Lb.** \$1.00.
- serrata.** **QUER-78.** 50¢
(Q. glandulifera) Tr. to 50 ft; Japan.
- Suber.** **QUER-79.** 50¢
Cork Oak. 60 ft; (V). **Lb.** \$1.25.

RAMONDA.

(ray-MOND-ah)

Gesneriaceae. Small plants making flat rosettes of hairy basal leaves; stems 3-4 inches long, bearing several 4-5 pointed flat flowers, resembling Saintpaulia, to which family it belongs; fully hardy with some protection; seedlings develop slowly.

- Nathaliae.** **RAMO-5.** 50¢
Lavender-blue with golden centers; Serbia; HHP.
- Myconii.** **RAMO-7.** 50¢
Purple fls, 1" across; 3 inches high; HHP. Not too high temperature in germinating; expose to the light; (R. pyrenaica).
- pyrenaica:** see **Myconii.**
- Mixed.** **RAMO-X.** 30¢

PLEASE DO NOT USE COMMON NAMES

Get your perennials started by August.

RANUNCULUS

Buttercup, Crowfoot. Ranunculaceae. A very large genus and popular in flower gardens; those grown mainly as GH plants are in R. asiaticus. They are easily grown; C-23 sow fresh seeds in pans of sandy soil; cold frame or cool GH.

- ac-nitifolus.** **RAN-2.** 30¢
White fls, 1" across; 3 ft; HP
- asiaticus.** **RAN-10.** 30¢
(superbissimus) Giant double flowered Anjon strain; mixed colors; 10" HP.
- californicus.** **RAN-13.** 25¢
Yellow fls; 2 ft; Ore; HP.
- calandrinoides.** **RAN-14.** 40¢
Winter flowering; white flushed pink, 2" across; silver leaves; HP.
- Giant Massy.** **RAN-10M.** 35¢
A splendid blend from France.
- gramineus.** **RAN-27.** 40¢
Grassy lvs; bright yellow fls, 1" ac; 1 ft; deciduous; spring flowering; good RG plant; Morroco.
- hirtellus.** **RAN-30.** 25¢
Variable species; yellow, white or pale rose fls 2" ac; HP.
- Hybrids.** **RAN-31F.** 25¢
French giant hybrids.
- Lappaceus.** **RAN-33.** 30¢
- lindleyi.** **RAN-34.** 25¢
- Lyallii.** **RAN-35.** 30¢
Showy species; white fls; 2 ft; N. Z; TP.
- repens.** **RAN-60.** PLANTS
Creeping Buttercup. 6-8" ground cover; lvs white, variegated or spotted; deep yellow fls in Spring; low or moist soil; semi-shade. **PLANTS:** Each 50¢; 3-\$1.00; 25- \$8.00.
- superbus.** **RAN-67.** 25¢
In shades of pink, white, red, yellow, rose; takes 35 days to germinate; HP.
- Mixed.** **RAN-X.** 25¢

RAPHIA.

Palmaceae. Feather Palms. For far South.

- flabelliformis.** **RAPI-5.** 75¢

RAPHIOLEPSIS.

(raf-ee-OL-ep-iss)

Rosaceae. Evergreen shrubs grown in the South; they have shiny leathery leaves; white or pink flowers in racemes or panicles, followed by purple fruits. Seeds sown during Feb. usually germinate freely; fall planting so as to get winter frosts is helpful.

- indica.** **RAPH-3.** 50¢
India-Hawthorne. Chinese sh to 5 ft; white or pinkish fls in loose glabrous panicles; 100 seeds to ounce.
- umbellata v. ovata.** **RAPH-6V.** 35¢
Yeddo Hawthorne. 12 ft; Japan. **Oz.** 75¢

RATHBURNIA.

Cactaceae. Two species from W. Mexico.

- alamosensis.** **RATH-3.** 50¢
Columnar to 10 ft; 3" diam; fls scarlet, 4" long.

RATIBIDA.

Compositae. Cone-flower. Formerly Lapachys. Per. with large globose or cylindrical disks; flowers first year; June-Sept; well drained rich soil; sun; border.

- pinната.** **RATI-5.** 35¢
5 ft; rays yellow; 3" long; HP.

REBUTIA.

(reb-BEW-tee-uh)

(WS, CG) Low growing, small rounded plants; in shades of red, orange, yellow and violet; free-flowering; full sun; plenty of water spring-Oct; very little during

the winter; more leaf mould and old manure, plenty of grit; easy from seed.

—**Blossfield Expedition.** **REBU-2. 50¢**
Probably contains new species.

—**mimacula.** **REBU-14. 75¢**
Bright scarlet fls in spring; sun.

—**Fiebrigthii:** see *Aylostera*.

—**pseudominuscula.** **REBU-17. 40¢**
Fls brilliant red, $1\frac{1}{4}$ " long; N. Argentine.

—**senilis.** **REBU-20. 50¢**
Depressed globose; 10"; bright crimson fls 2" ac.

—**violaciflora.** **REBU-24. 40¢**
Globose, $\frac{3}{4}$ " diam; rose-violet fls; $1\frac{1}{4}$ " ac; small neat, beautiful; easy and free-flowering; N. Argentiniana.

—**xanthocapa.** **REBU-26. 50¢**

—**salmonea.** **REBU-26S. 75¢**

RESEDA: see **MIGNONETTE.**

RHAMNUS. (RHAM-nus)

Seeds best means of increase.

—**Alaternus.** **RHAM-1. 30¢**
Sow in fall or stratify; 20 ft; (VIII). c. s. Oz. 50¢; lb. \$3.00.

—**calharica.** **RHAM-6. 30¢**
c. s. Oz. 50¢; lb. \$3.00.

—**crocea.** **RHAM-9. 25¢**
Red-berry. 3 ft; evergreen; (VIII).

—**ilicifolia.** **RHAM-9L. 30¢**
Holly-leaf Red-berry. (VIII).

—**davurica.** **RHAM-8. 30¢**
Dahurian Buckthorn. To 30 ft; Siberia. c. s. Oz. 50¢; lb. \$4.50.

—**Frangula.** **RHAM-14. 30¢**
Alder Buckthorn. 12 ft; (V). c. s. Oz. 50¢; lb. \$5.00.

RHAPIS.

Palmaceae. Lady Palms. Low bamboo-like Palms; good tub plant or for outside in far S.

—**excelsa.** **RHAP-5. \$1.00**
(*R. flabelliformis*) Several stems; to 8 ft; graceful; like *Neanthe bella* Palms. 3,000 seeds to lb; crop in Oct. Lb. \$40.00.

—**humilis.** **RHAP-9. \$1.00**
More slender stems, to 1" broad; crop variable and not always certain; write.

RHEUM. (REE-um)

Rhubarb. Polygonaceae. Perennials with stout basal leaves and with the flowers in clusters or racemes at top of long stems. Used for bold effect in the border.

—**acuminatum.** **RHEM-1. 30¢**
Stems and flower dark purple; 2-3 ft; Himalayas; HP.

—**nobile.** **RHEM-8. 25¢**
Himalayan Rhubarb. Pretty when it is young with its white lvs; can be eaten like Phubarb; 4 ft; HHP.

—**Rhaponticum.** **RHEM-12. 30¢**
Pie-Plant. Also listed in the Herbs.

RHEXIA. (REX-si-ah)

Melastomaceae. Meadow Beauty. Perennials native of N. Amer; flowers are terminal solitary or in cymes, followed by fruits. Border or wild garden; moist places.

—**mariana.** **RHEX-5. 25¢**
Golden stamens surrounded by delicate, pale pink petals; 2 ft; HP; (V).

—**virginica.** **RHEX-9. 25¢**
Dandy for moist acid places; 20"; roots tuberous; deep magenta-pink fls, $1\frac{1}{2}$ " ac; easy from seed sown in peaty soil as soon as ripe; or scatter seed; seed held should be stratified or it take a year to germinate. 18"; rosy purple fls; $1\frac{1}{2}$ " ac; HP.

RHIGOZUM.

—**obovatum.** **RHIG-12. 40¢**
Bright yellow fls; 8 ft; TSh; S. Africa.

RHINEPHYLLUM.

—**Comptonii.** **RHIN-3. 50¢**

RHIPOGONUM.

Lilaceae. Cl. sh. of Aust. and N. Z.; fls borne in racemes; (X).

—**scandens.** **RHIP-9. 40¢**
Greenish fls, $\frac{1}{4}$ " ac, in racemes, 6" long; bright red berries; N. Z.

RHODANTHE: see *Helipterum Manglesii*.

RHODODENDRON

(roh-doh-DEN-dron). Ericaceae. They can be sown inside in January or March, in a mixture of sand, peat and a little loam; cover seed lightly with our milled sphagnum and remove glass as soon as germination starts.

CULTURE: The growth of seedlings is best if the seed is sown in heat, about 65 degrees Fah. in January or February, thinly on fine peat, covered with glass and shaded; germination takes about 1-3 weeks, and as soon as seedlings appear, air is admitted gradually.

When the cotyledons are well developed they are uncovered completely. Then prick off into a mixture of peat, with a little loam and course sand added. By July or August they should be about 1-3 inches high and ready for planting out in frames, protecting them from frosts. The secret of the whole process being to maintain rapid growth continuity for the first year or two. The soil must be kept slightly on the acid side and rain water is to be preferred to regular tape water.

SYMBOLS USED:, A.M. and FCC (first class certificate) are from the RHS in England.

—**Albrechtii.** **RHOD-16. 50¢**
—**arboreum. Mixed Varieties.** **RHOD-30. 50¢**
Oz. 80¢; lb. \$7.00.

—**Auriculatum.** **RHOD-41. 50¢**

—**auritum.** **RHOD-42. 50¢**

—**Azor.** **RHOD-45. 50¢**

Pink, spotted with yellow; 20 ft.

—**barbatum.** **RHOD-49. 50¢**

—**caeruleum.** **RHOD-64. 50¢**

—**Campylocarpum.** **RHOD-74. 50¢**

Pale rose-purple to white; 6 ft.

—**catawbiense.** **RHOD-86. 50¢**

Mountain Rose Bay. To 20 ft; fls 2" ac; May-June; from selected plants of 30 varieties; N. Y.

—**cinabarinum.** **RHOD-96. 50¢**

Brick-red inside, orange-yellow outside 10 ft; May-June; Himalayas.

—**crassum.** **RHOD-104. 50¢**

White funnelform fls; 20 ft; Himalayas.

—**decorum.** **RHOD-117. 50¢**

White to pinkish, 2" across; China.

—**desquamatum.** **RHOD-123. 50¢**

Pale pinkish purple; 30 ft; N. Burma.

—**Dispreps.** **RHOD-130. 50¢**

—**Edgeworthii.** **RHOD-140. 50¢**

White fls, often tinged bluish, 4" ac, bell-shaped; rare; 6 ft; Himalayas.

—**elaagnoides.** **RHOD-141Y. 50¢**

Yellow fls; smallest species; very scarce; 9" ac Himalayas.

—**Falconeri.** **RHOD-146. 50¢**

Very large lvs; white fls, densely placed on large heads.

- Fargesii.** RHOD-147. 50¢
White or pinkish, bell-shaped fls; 15 ft; China.
- ferrugineum.** RHOD-150. 50¢
Pink; 3 ft; July-Aug. Oz. \$1.00; lb. \$12.00.
- Fictolactium.** RHOD-151. 50¢
- Fortunei.** RHOD-161. 50¢
- fulgens.** RHOD-166. 50¢
Bright blood-red fls with black spot at base, $1\frac{1}{2}$ " ac; 8 ft; Himalayas.
- Gheni Hybrids.** RHOD-293G. 50¢
Beautiful hybrids much grown by nurseries; will be pleased to quote quantity prices if interested.
- grande.** RHOD-177. 40¢
(argenteum) Tr to 40 ft; rose to white bell-shaped fls; Himalayas. Oz. 80¢; lb. \$10.00.
- Griffithianum v. Aucklandii.** RHOD-129A Pkt. 50¢. 8 ft; fls 8" ac, white fragrant. Largest and most handsome of genus. Oz. \$2.00.
- Griersonianum.** RHOD-178. 50¢
Rose with darker spots; 6 ft; China.
- Hinodegiri.** RHOD-188. 90¢
Brilliant crimson; true seed; one of the Japanese Kurume Azalias.
- hybridum.** RHOD-198. 50¢
Made up of hybrid seed from all sources. Oz. 90¢; lb. \$8.00.
- hippophaeoides.** RHOD-191. 50¢
Lavender-blue; bell-shaped; 5 ft; China.
- hirsutum.** RHOD-192. 75¢
3 ft; pink, funnel-form fls, $\frac{1}{2}$ " ac; June. Oz. \$1.25; lb. \$13.00.
- imeditum.** RHOD-200. 50¢
Light purplish blue; 20 ft; Yunnan.
- indicum.** RHOD-202. \$1.50
A new Japanese hybrid strain; best of all Azalias; this strain is extra good and not much known as yet; colors in crimson, pink red-carmine, variegated, blue, white, single and semi-doubles; evergreen, like indica but small leaf; Mar-June; pot or garden.
- yodoindica.** RHOD-202Y. \$1.00
A new introduction from Japan; crosses between indicum, Omurasaki and its varieties of pink and white; variegated and carmine fls; pots or garden.
- Kaempferi.** RHOD-250K. 50¢
Red to pink; 3 ft; (R. obtusum K).
- Kaempferi.** RHOD-250H. 75¢
Kurume; see obtusum v amoenum.
Tree to 35 ft; rose fls.
- kurumendica.** RHOD-251. 75¢
Hybrid of R. indica x kurumea; a vigorous and profuse bloomer; early; pots or garden.
- Luscombranum.** RHOD-236. 50¢
Hybrid of Fortunei and Thompsonii; pink fls.
- Maddenii.** RHOD-244. 50¢
Pure white fls, tinged blue; $3\frac{1}{2}$ " ac; 8 ft; Himalayas.
- maximum.** RHOD-249. 50¢
Large sh or tr; very hardy; pale rose fls; good in masses.
- Metternichii.** RHOD-252. 50¢
Bell-shaped rose fls, 3" ac; Japan.
- molle.** RHOD-255. 50¢
Japanese Azalea. Golden yellow; mixed varieties.
across: (VIII).
- neruiifolium.** RHOD-270. 50¢
- oleifolium.** RHOD-328. 50¢
- obtusum Arnoldianum.** RHOD-250A. 50¢
Rose or red; 3 ft; hyb. between amoenum and Kaempferi.
- amoenum.** RHOD-250K. 50¢
(Kurume Azalea).
- obtusum Kurume.** RHOD-250K. \$1.00
Many colors; seeds saved from over 200 named varieties.
- occidentalis.** RHOD-280. 50¢
Western Azalea. Pink and yellow, 2"
- oreotrepheas.** RHOD-290. 50¢
Rose-lavender; 7 ft; China.
- ponticum.** RHOD-309. 50¢
Purple, spotted brown; 10 ft; can supply it also in mixed varieties at Oz. \$1.00; lb. \$12.00. This is generally used for understock for Rhododendron varieties and the hybrids.
- pulchrum.** RHOD-321. 75¢
(Oomurasaki) Largest fls of all Rhododendrons; ev. gr; vivid rosy purple fls; vigorous; garden.
- reticulatum.** RHOD-337. 75¢
(R. dilatatum) One of the most beautiful Azalias; deep rose fls blooming before lvs; earliest to flower; so gprofuse that fls entirely cover tree; 25 ft; Japan.
- rubiginosum.** RHOD-347. 50¢
Pinkish blue, spotted brown; tree to 30 ft; Yunnan.
- Smirnowii.** RHOD-380. 50¢
Rose, bell-shaped; 18 ft; Caucasus.
- sutchuense.** RHOD-392. 50¢
Pink or lilac, spotted purple; 10 ft; China.
- tethropeplum.** RHOD-397. 50¢
- Thomsoni.** RHOD-399. 50¢
Dark salmon-pink, interior pinkish white.
- timetuum.** RHOD-400. 50¢
- triflorum.** RHOD-405. 50¢
Light yellow, spotted green; 8 ft; Himalayas.
- Vaseyi.** RHOD-415. 50¢
- viscosum.** RHOD-317. 50¢
White Swamp Azalia; 10 ft; fls white; frag acid soil; swamps; Me.
- viscosum.** RHOD-450. 50¢
White Swamp Azalia. 10 ft; fls white; frag; acid soil; found in swamps; Me.
- Mixed Rhododendrons.** RHOD-X. 50¢
This is a very choice collections of both Rhododendrons and the species usually listed under Azaleas; there are many additions other than those listed above.

RHODOHYPOXIS. (ray-doh-hy-POX-is)

Amarylloidaceae. Pretty little bulbous plants from S. Africa and very rare in cultivation. They make a dense turf of short grassy leaves, with flat 6-pointed stars, $\frac{3}{4}$ " across; moist but well drained sandy soil, half shade and will stand down to 20 degrees F. Bulbs wintered over in the cellar should not be allowed to dry out.

—**bauri.** RHOX-1. 50¢
Brilliant rose or white fls; makes a good pot plant.

RHODOTYPOS. (roh-doh-TYE-pos)

Rosaceae. Decid. shrubs from Orient; very ornamental.

—**tetrapetal.** RHOT-2. 50¢
(kerriodes) Jetbead. (IV); fls 2" ac; May-June. Oz. 85¢; lb. \$5.50.

RHUS. (RUS)

Seeds germinate freely.

—**chinensis.** RHUS-4. 40¢

—**cismontana.** RHUS-7. 40¢

—**coifinus:** see *Cotinus Coggyria*.

—**ovata.** RHUS-20. 40¢

Sugar-Bush. Ev. sh to 10 ft; light yellow fls in short dense racemes; fr. dark red; (X); Oz. 90¢; lb. \$5.00.

—**succedanea.** RHUS-23. 40¢

Wax Tree. 325 seed per oz.

—**typhina.** RHUS-30. 35¢

Staghorn S. Sh or tr 30 ft; fls greenish in dense terminal panicles; fr. crimson.

—**verniflora.** RHUS-32. 40¢

Oz. 50¢; lb. \$3.50.

RIBES.

Currents, Gooseberries. Saxifragaceae.
Sow seed outdoors in Fall.

—**aureum.**

RIBU-4. 40¢

—**sanguineum.**

RIBU-51. 35¢

To 12 ft; red fls; bluish black frs; B. C.

RICINUS.

(RISS-in-us)

Caster Bean. Euphorbiaceae. A single species, variable and distributed over tropical regions. They are planted for foliage effect in gardens; start indoors in pots, transplanting them to their beds after all danger of frost has passed; give good rich soil.

R. COMMUNIS:

—**borboniensis arboreus.**

RIC-1B. 25¢

Red stems; glaucous foliage; 10 ft.

—**cambodgensis.**

RIC-1C. 25¢

Dark foliage and blackish purple stems; 10 ft. Oz. 75¢; lb. \$3.00.

—**Gibsonii.**

RIC-1G. 25¢

Dark foliage with metallic luster; dwarf form; 8 ft. Oz. 75¢; lb. \$2.00.

—**Red Spire.**

RIC-1R. 25¢

Showy red stemmed variety; 10-15 ft. Oz. 75¢; lb. \$2.00.

—**sanguineus.**

RIC-1S. 25¢

Red leaves; 10 ft. Oz. 75¢; lb. \$2.00.

—**zanzibarensis.**

RIC-1Z. 25¢

Bright green leaves with white veins; 15 ft. Oz. 75¢; lb. \$3.00.

—**Mixed.**

RIC-1X. 25¢

Oz. 50¢; lb. \$1.50.

RIVINA.

(riv-VYE-nuh)

Phytolaccaceae. Grown in the GH or out doors for their berry-like fruits.

—**humilis.**

RIVI-4. 40¢

Rouge-Plant. 3 ft; white or rosy fls; tropical; (IX).

ROBINIA.

(roh-BIN-ee-uh)

Species best increased from seed.

—**Pseudo-acacia.**

ROBI-16. 30¢

False Acacia. Soak seed in hot water; best sown in spring. Oz. 60¢; lb. \$2.00.

—**Bessoniana.**

ROBI-16B. 30¢

Oz. 50¢; lb. \$2.10.

—**ine-rinis.**

ROBI-16N. 30¢

Oz. 50¢; lb. \$2.20.

—**spectabilis.**

ROBI-16S. 30¢

Oz. 50¢; lb. \$2.30.

—**viscosa.**

ROBI-18. 30¢

Clammy Locust. Sow seed in the spring.

Oz. 60¢; lb. \$2.75.

ROMNEYA.

(ROM-nee-uh)

Locust. Leguminosae. They are hardy in the North. Start seeds in the spring.

—**Coulteri.**

ROMN-1. 40¢

Matilija Poppy. White, 6" across; 8 ft; (VII). Oz. \$2.00.

ROMULEA.

(rom-YEW-lee-uh)

Iridaceae. Crocus-like bulbs in purple and yellow; closely related to the Crocus but not real hardy; they are not common in the U. S. A.

—**bulbicodium.**

ROMU-1. 30¢

Pale lilac. yellow centers, tinted golden brown.

—**Hartungii.**

ROMU-2. 30¢

From South Africa.

—**rosea.**

ROMU-9. 35¢

Red-lilac fls with yellow throat; lvs 1 ft long; S. Af.

ROSCOEA.

Zingiberaceae. Grown in GH in N or out side in mild regions; have thick fleshy roots; grow in sandy loam; set roots 5" deep.

—**humeana.**

ROSO-10. 50¢

Lovely purple orchid-like flowers.

ROSA

Rose. Rosaceae. The seed of the species should be planted in the fall so that they can lay over winter in the soil, when they usually germinate in the spring. Hold the seed bed for two years at least for late germinating seeds. I would appreciate hearing from any one growing the species not listed here; we are growing these in our own planting and missing species will be appreciated. Keep seed beds shaded and moist during summer; er; be sure the seed is covered during summer months.

Try planting 5-10 seeds in a hill direct to garden, in the fall, and cover with a coffee can (punch a few holes in bottom); push can into soil almost to bottom to keep the mice from the seed; remove early in sp.

—**acicularis.**

ROSE-1. 35¢

Deep rose, fragrant; hardy wild Rose; 3 ft. c. s. Oz. 50¢; lb. \$1.75.

—**Brunonii.**

ROSE-23. 50¢

Himalayan Musk R. Semi-cl; white frag fls, 2" ac; yellow stamens; not hardy N.

—**canina.**

ROSE-26. 30¢

Dog Rose. 10 ft; Oz. 60¢.

—**carolina.**

ROSE-28. 30¢

Masses of 3" fragrant pink fls followed by glossy red fruits holding on into the winter; 6 ft; Me. to Fla.

—**cericea.**

ROSE-34. 30¢

Himalayan Wild Rose. Pretty single fls; white.

—**damascena.**

ROSE-43. 75¢

—**Eglanteria.**

ROSE-44. 50¢

(rubiginosa) Sweet Brier. 8 ft; pink fls, 2" across.

—**gallica v. gr. fl.**

ROSE-52G. 35¢

French Rose Common in old Rose gardens; 4 ft; pink or crimson fls, 3" ac; Eu.

—**highdownensis.**

ROSE-68. 40¢

Crimson fls; bright fruits; a hybrid.

—**horrida.**

ROSE-70. 35¢

(*exox) Dwarf bush; fls 1" ac, white; Eu.

—**Moyesii.**

ROSA-104. 50¢

Deep red fls, 2½" ac; 10 ft; dark orange-red fr; China.

—**Fargesii.**

ROSE-104F. 50¢

Deep pink fls and large crimson hips or fruits; easy.

—**multiflora.**

ROSE-106. 30¢

Japanese Rose. 8 ft; (II). c. s. Oz. 50¢; lb. \$3.50.

Oz. 60¢; lb. \$3.00.

—**nana perpetua.**

ROSE-106P. 355¢

Most dainty little plant; 6" tall; sow seed in small pots seed sometimes takes 8-9 months to germinate. 100 berries \$1.50; 1,000 \$7.00.

—**nutkana.**

ROSE-112. 30¢

Rose fls; 5 ft; to Alaska.

—**pendulina.**

ROSE-118. 35¢

Rose fls in corymbs; 3 ft.

—**pomifera.**

ROSE-127. 35¢

(villosa) 6 ft; pink fls, 2" ac; hardy in N; (III).

—**pimpinellifolia.**

ROSE-141. 40¢

(spinoissima) Scotch Rose. White, pink or yellow.

—**altaica.**

ROSE-141A. 35¢

White; Minn.

—**polyantha.**

ROSE-126. 40¢

Multiflora type. Oz. 85¢; lb. \$5.00.

- nana*. ROSE-126N. 40¢
Dwarf strain. 100 seeds 75¢; 1,000, \$5.00.
Flowers in 7 weeks after sowing; 800 seeds to the ounce.
- rugosa*. ROSE-131. 35¢
Red or white, 4" across. Oz. 75¢.
- rubrifolia*. ROSE-130. 40¢
One of the loveliest of the Rose species; comes true from seed; thornless; deep red fls, 1½" ac; corymbs; 6 ft; (IV).
- setigera*. ROSE-134. 35¢
Prairie Rose. Climber to 15 ft; pale rose.
- tomentosa*. ROSE-150. 35¢
Pink and white fls; 6 ft.
- Woodsii*. ROSE-158. 35¢
Pink; very hardy; 6 ft; (I). c.s. Oz. 80¢.
- Wichuraiana*. ROSE-156. 40¢
Prostrate evergreen Rose; fragrant white fls 2" ac; hardy. Oz. 75¢; lb. \$3.00.
- Mixed*. ROSE-X. 30¢

ROSELLA: see *Hibiscus Sabbariffa*.

ROSEMARY: see *Rosmarinus*.

ROSEOCACTUS. (roh-zee-oh-KAK-tus)
Cactaceae. Formerly with *Ariocarpus*; very succulent plants with turnip-like root.

—*Kotschoubeyanus*. ROSC-5. 40¢
Plant 2" ac; fls light purple, 1" long.

ROSMARINUS. (ross-muh-RYE-nus)
Rosemary. Labiatae. Hardy evergreen shrubs grown for both ornament and as a garden herb; sow seed out doors during Apr; HP to V zone.

—*officinalis*. ROSM-1. 25¢
Light blue fls; 6 ft; April-May; (V); do best in limy soil. ½ Oz. \$1.50.

ROYSTONEA. (roy-STOH-nee-uh)
—*regia*. ROYS-5. 75¢
\$3.50; 1,000, \$15.00.

RUBUS. (ROO-bus)

Rosaceae. Brambles; Raspberries, etc.
—*Australis*. RUBU-8. 35¢
White fls; fruit reddish orange; N. Z.; lofty climber found on trees.

—*Chamaemorus*. RUBU-12. 40¢
Cloudberry. To 10 ft; white fls 1" ac; reddish yellow fr; RG; Alaska.

—*ellipticus*. RUBU-18. 35¢
Himalayan Raspberry. Fruits orange and very sweet; large fruits; try these for seedlings.

—*fruticosus*. RUBU-23. 35¢
The shrubby blackberries of Europe.

—*idaeus*. RUBU-28. 40¢
European Raspberry.

—*pedatus*. RUBU-61. 40¢
Slender vine; 3 ft; good ground cover; Alaska.

—*parviflorus*. RUBU-58. 40¢
(*nutkanus*) White fls; much like the flowering Raspberry; Alaska.

—*spectabilis*. RUBU-75. 40¢
Salmon-berry. Ornamental; very hardy both yellow and red fruits; rather prostrate in growth; collected in Alaska. Oz. d. b. 80¢.

RUDBECKIA

Coneflower. Compositae. Conical shaped disks of daisy-like flowers; thrive in any ordinary soil in sun or partial shade. Seed can be planted early indoors or later outside as for perennials. They are especially nice in border or cutting. (rud-BEK-ee-uh). Best started in early Spring indoors and set out during April or May.



RUDBECKIA—AUTUMN FROSTS

—Autumn Frosts. RUD-6F. 30¢

NEW. Large single fls in many beautiful shades of bronze-red, copper, orange, lemon and yellow with jet-black centers; long stemmed, long lasting and fine cut; can be flowered the 1st year; 2-2½ ft; HA.

—*amplexicaulis*. RUD-1. 25¢
Yellow petals, brownish disk; 2 ft; nice in the border; HA.

—*bicolor*. Golden Sunset. RUD-2G. 20¢
Double golden flowers; HA.

—*superba*. RUD-2BS. 30¢
Large fls in 2 colors; golden yellow with velvety brown center; try sowing broadcast in waste places. Oz. 50¢.

—*splendens*. RUD-2S. 20¢
—*hirta*. RUD-6. 20¢
Black-Eyed-Susan. Biennial but often annual; 3 ft; rays golden yellow, disks purple-brown, ¾" across; June till frost.

—*Harmony*. RUD-6Y. 50¢
A new Rudbeckia with quilled and twisted petals and golden tips; 3 ft; good for cutting. ¼ Oz. \$1.00.

—Autumn Tints. RUD-6A. 20¢
Golden yellow petals, dark disks; 2 ft.

—Star of Kelvedon. RUD-6K. 20¢
Golden yellow rays, dark brown disk.

—My Joy. RUD-6M. 25¢
A pure golden yellow with dark disks; 2½ ft; popular German variety.

—Little Joy. RUD-6MP. 30¢
A new dwarf variety; golden yellow with black centers. ¼ Oz. 80¢.

—Starlight. RUD-6S. 030¢
Semi-double; primrose-yellow to mahogany; many striking bicolors. ¼ Oz. \$3.00.

—Mixed. RUD-6X. 20¢

—*laciniata*. RUD-7. 35¢
Heads 4" ac, rays yellow, drooping, disks greenish yellow; 12 ft; HP.

—*purpurea*: see *Echinacea purpurea*.

—*speciosa*, *Newmanii*. RUD-17N. 25¢
Pinkish rays, large dark cone; petals hang downward giving it an attractive effect; 2 ft; HP.

—*Newmannii*. RUD-17NY. 35¢
This has golden yellow petals with large dark dis; 3 ft. ¼ Oz. \$1.00.

—*Rudbeckia Mixed*. RUD-X. 20¢

RUE: see *Ruta*.

RULINGIA

—*densiflora*. RULI-8. 50¢
3-4 ft; Australia.

RUELLIA. (roo-EL-i-ah)

Acanthaceae. Ornamental GH plants in North; pretty outdoors in South.

—**nudiflora.** **RUEL-15. 35¢**
Wild Petunia. 2 ft; lilac or bluish fls; Tex.

RUMEX. (ROO-mex)

—**patientia.** **RUME-13. 25¢**
Spinach-dock; Herb-Patience. A savory winter vegetable.; 6 ft; HP.

—**scutellus French Broad-lf.** **RUME-29. 35¢**
Sorrel oor Belleville Sorrel. Excellent herb for salads; HP. **Oz. 90¢.**

RUSCUS. (RUS-kus)

Liliaceae. Shrubs with berry-like fruits; grown in the South; seeds will produce plants of both sexes.

—**aculeatus.** **RUSC-1. 30¢**
Butcher's Broom. Evergreen; red or yellow berries; 3 ft. **Oz. 50¢; lb. \$3.00.**
—**racemosa:** see *Danæ racemosa*.

RUTA. (ROO-tah)

RUE. Rutaceae. Aromatic and pungent herbs; of medicinal value.

—**graveolens.** **RTUA-4. 35¢**
Common Rue. (officinalis); Ev. gr. subsh; 3 ft; HP.

SABAL. (SAY-bal)

Palmetto. Palmaceae. (Inodes). The Palmetto Palms, found in Florida and as far North has N. C. They are easily grown; fresh seed is available is the fall; germinates readily and grows quickly.

—**Blackburnia.** **SABA-4. 60¢**
Palm 100 seeds \$3.00; 1,000, \$15.00.
—**minor.** **SABA-10. 60¢**
(Adamsonii) 200 seeds to lb; (May).
100 seeds \$3.00; 1,000, \$15.00.

SAFFRON: see *Carthamus tinctorius*.

SAGE: see *Salvia officinalis*.

SAINTPAULIA

African Violets. Gesneriaceae. They can grown easily from seeds and produce excellent type flowers. The seed being small, sow them on the surface of a mixture of peat, leaf mould and silver sand, equal parts; press seeds into soil and cover with glass; water from below; keep in warm place where they germinate in 2 weeks; be careful of damping off, ventilate often.

If lights are used, 600 foot-candles, for 18 hours per day, will produce saleable planth in about 90 ways; chromosome N-15 for all species.

NEW CROP SEED: September to January.

—**Ama-arth.** **SAPU-1A. \$1.00**
A very superior German strain. 500 s'eds to the packet.

—**diplotricha.** **SAPU-1. 50¢**
Deep blue strain; German grown seed; very free flowering strain; special; packets have about 250 seeds.

—**Blue Fairy Tale** **SAPU-1B. 75¢**
An improved floriferous strain from Germany.

—**Hybrids.** **SAPU-1H. 60¢**
Choice large flowered mixture; many attractive shades; grown in the Netherlands. 1/64 Oz. \$21.00.

SALIX. (SAY-lik)

Willow. Osier. Salicaceae.

—**Caprea.** **SALX-21. 30¢**
Goat Willow. 25 ft; Asia. **Oz. 50¢; lb. \$1.75.**

SALPIGLOSSUS

(sal-pi-GLOS-is) Solanaceae. Half hardy annuals from Chile, the Paisly Flower, suggests well the exotic beauty of its coloring, rich velvety tones of purple, blues, yellows, reds and white, veined with gold; funnel-shaped, 2½" across; blooms from July till frost. Start seed early indoors, being careful not to allow seedlings to become stunted; best in sandy soil and part shade; germinate in light and a warm place; for winter flowers in the GH, sow first week in August; don't over water; fls 20 wks from seed; germ. at 65 degrees F.

—**Dwarf Giant Flowered.** **SALP-1D. 30¢**
—**Vesuvius.** **SALP-1DV. 35¢**

Gold and silver on a violet-purple background; even habit of growth; large flower clusters. 1/16 Oz. 90¢.

—**Emperor.** **SALP-1E. 30¢**
Upright growth; heavy gold veining; extra fine; 3 ft; HHA. ½ Oz. 75¢.

—**gloxiniaeflora.** **SALP-1G. 30¢**
Gloxinia-like flowers; beautifully marked; 3 ft.

—**Blend.** **SALP-1X. 25¢**
All kinds mixed. ½ Oz. 75¢.

SALVIA

(SAL-v-ah) Sage. Labiatea. There are many species, some of which are very showy in the flower border. *S. splendens*, Scarlet Sage, is the best known, being grown for its red flowers. They all are easily grown from seed and require no special treatment

Salvias do best in lime soils.

—**argentea.** **SALV-4. 30¢**
Silver Salvia. White woolly fol; rose-white fls; 8"; HB. ½ Oz. 90¢.

—**azurea.** **SALV-7. 30¢**
Blue or white fls, ½" long, in racemes; 3 ft; HHP

—**coccinea.** **SALV-20. 30¢**
Perennial of tropical Amer; grow as a HHA; fls quite distinct from *S. splendens*; bright scarlet, carried on long slender racemes; July-Sept; 2 ft. ½ Oz. 90¢.

—**fariracea.** **SALV-24. 30¢**
Perennial native of Texas; grow as HHA in North; spikes of soft lavender-blue; July-Sept; 2-3 ft. ½ Oz. \$1.50.

—**Blue Bedder.** **SALV-24B. 30¢**
A pretty shade of blue and longer spikes; fairly hardy. ½ Oz. \$2.00.

—**Forskohlei.** **SALV125. 50¢**
—**haematodes.** **SALV-29. 30¢**
Delightful border plant with low growing foliage and branching spikes, 2½-3 ft; HP.

—**Horminum.** **SALV-34. 40¢**
Lilac-purple fls in racemes; 1½ ft; HA.

—**Oxford Blue.** **SALV-34B. 30¢**
A showy Salia; deep blue bracts; 2 ft; HA.

—**interrupta.** **SALV-40. 30¢**
Bluish white fls in racemes 2 ft long; 4 ft; TSh.

—**Juriscii.** **SALV-44. 30¢**
Small purple fls on branched racemes; 18"; Serbia; HP.

—**lyrata.** **SALV-48. 30¢**
Bright blue fls on 2 ft stalks, in whorles; sandy soil; will flower first year if started early; HP.

—**officinalis.** **SALV-60. 25¢**
Garden Sage. Sow late in fall or early spring. **Oz. 75¢; lb. \$5.00.**

—**patens.** **SALV-61. 30¢**
Gentian Salvia. Blue fls 2" long; 2½ ft. HHA ½ Oz. \$2.50.

- Cambridge Blue.** SALV-61C. 30¢
A pretty improved variety. ½ Oz. \$2.50.
- Mauve Queen.** SALV-61M. 30¢
A lovely mauve colored variety. ½ Oz. \$3.00.
- Lavender Lady.** SALV-61L. 30¢
Improved lavender variety. ½ Oz. \$3.50.
- pratensis.** SALV-64. 30¢
Bright blue fls, 1" long; 3 ft; HP.
- scabiosaefolia.** SALV-75. 30¢
SALV-77. 30¢
Clary Salvia. Rose and white fls, 1" long in panicle racemes; 3 ft; HB; the top lvs are rich in oil.
- turkestanica.** SALV-77T. 30¢
White fls tinged with pink.
- sonomensis.** SALV-83. 30¢
Creeping Sage. Light shade or in sun; rare; HP; (VIII).
- Salvia Blend.** SALV-X. 25¢
Mixture of all kinds excepting S. splendens.

SCARLET SAGE

S. SPLENDENS: Scarlet Sage, easily grown from seed started in Feb. or March. They are perennials but tender; grow as TA in the North. Seed germinates in about 15 days and should be kept in a warm place and in the light; cover seed pan with glass, not with paper in this case.

- Scarlet Piccolo.** SALV-85P. 35¢
An entirely new variety; 10" high; bright scarlet fls; the dwarfest and earliest Salvia. ½ Oz. \$4.50.
- America.** SALV-85A. 30¢
Earliest; uniform plants, 20" high; brilliant scarlet. Oz. \$3.00; lb. \$26.00.
- Bonfire.** SALV-85B. 30¢
Brilliant scarlet; erect stiff growth; 30" high; (Clare Bedman). Oz. \$2.50; lb. \$24.00.
- Fireball.** SALV-85F. 30¢
Scarlet fls; very early; dwarf; heavy spikes; 15". Oz. \$4.00; lb. \$32.00.
- St. John's Fire.** SALV-85S. 30¢
Early dwarf; scarlet fls; upright growth; 10" plants. Oz. \$9.00.
- Zurich.** SALV-85Z. 30¢
Earliest and very dwarf; compact; scarlet; 18". Oz. \$3.00; lb. \$26.00.

NOTE: We will be pleased to quote special prices in pound lots to florists; please write, stating kinds and quantity wanted.

- SAMANEA.** (sam-an-EE-ah)
Leguminosaeae. Tropical American trees and shrubs; shade; X.
- caerulea.** SAMA-3. 50¢
SAMA-12. 50¢
Rain Tree. (Pithecellobium, Inga) or Monkey-pod. Tree to 80 ft; yellowish fls with showy pink stamens; (X).

- SAMBUCUS.** (sam-BEW-kus.)
Elder, Caprifoliaceae. Shrubs and small trees; very pretty in masses; fruits edible; seeds sown during Jan. germinate freely.
- nigra.** SAMS-11. 30¢
European Elder. c.s. Oz. 50¢; lb. \$2.00.
- pubens.** SAMS-13. 40¢
American Red Elder. 15 ft; scarlet fruit; not edible; collected in Alaska.
- racemosa.** SAMS-14. 40¢
European Red Elder. d.b. Oz. 50¢; lb. \$2.00.
- Sieboldiana.** SAMS-17. 40¢
Bush to 20 ft; fls. yellowishwhite in panicles 3" ac; APR-May; China. Oz. 85¢.

- SANQUISORBA.** (san-gwi-SOUR-bah)
Rosaceae. BURNET. Popular herbs with cucumber-like flavor; seeds germ. readily; sow early; space 8".
- minor.** SANJ-6. 40¢
Pimpinelle. (Poterium Sanquisorba) 2 ft; the lvs are used in flavoring; HP. Oz. \$1.25.
- officinalis.** SANJ-12. 25¢
Garden Burnet. To 5 ft; dark purple fls in spikes, 1" long; HP; (Pimpernel).

- SANSEVIERIA.**
Liliaceae. Bowstring Hemp. Popular pot plants.
- officinalis.** SANQ-12. 40¢

- SANTALUM.**
—**album.** SANL-1. 50¢
White Sandalwood. (X). Oz. \$1.75.

- SANTOLINA.** (san-toh-LY-nah)
Compositae. Low border or edging plants many of which are propagated by cuttings. Grayish low evergreen shrubs with many flower-heads of yellow or white disk flowers.
- Chamaecyparissus.** SANO-3. 40¢
(Sincana) Lavender Cotton. Ev. gr. sh; 2 ft; silvery fol; yellow fls; HP.
- rosmarinifolia.** SANO-6. 30¢
Solitary heads; 2 ft; HHSh.

- SANVITALIA.** (san-vi-TAY-le-ah)
Compositae. Small American annuals with small solitary heads and white or yellow rays, brown or purple disks; light soil and full sun. Sow out doors during April.

- procumben.** SANV-1. 25¢
—**Double.** SANV-1D. 25¢
Creeping Zinnia. A low border plant, 6" for hot dry places; fls orange-yellow with conspicuous purple-black centers; Aug-Oct; trailing. ¼ Oz. 85¢.

- SAPINDUS.** (sah-PIN-dus)
Soap-berry. Sapindaceae. Trs and shs or tropical regions; grown in S. for ornament.
- Mukowossii.** SAPN-3. 50¢
Soap-berry; (IX). Oz. 90¢; lb. \$4.00.
- emarginatus.** SAPN-1. 40¢
Soap Nut. India. Oz. \$1.25.

- SAPIUM.**
—**sebiferum.** SAPI-2. 50¢
Chinese Tallow Tree, Vegetable Tree. I(X). 100 seeds \$5.00.

- SAPONARIA.** (sap-on-NAY-ree-ah)
Soapwort. Caryophyllaceae. Easily grown hardy annuals and perennials, some of which are excellent for the rockery; flowers are red, pink or white, in cymes or panicles. Fls often used for mixing with Sweet Peas or other cut-flowers; succession plantings, March to June for market; annuals best sown in April where they are to grow.

- calabrica, Mixed.** SAPO-3X. 25¢
Pretty edging or bedding plant with small starry fls in bright red, deep rose, white and blood-red, in profusion all summer; 6-9"; HA; space 6". Oz. 60¢.
- officinalis.** SAPO-9. 30¢
Bouncing-Bet. Pink or white fls in clusters; open places; 1-2 ft. PLANTS: 70¢; 3 for \$1.55.
- ocymoides.** SAPO-8. 25¢
Bright pink fls in flat-topped clusters; RG or walls; trailer; 9"; HP. Oz. 90¢.
ev. gr. trailer; rocks, banks, stony slopes

or in tufts on edge of shrubbrey.

- splendens. SAPO-8S. 30¢
Fls larger and deeper rose.
- Vaccaria rosea. SAPO-13R. 25¢
Pale pink fls, ½" across in loose cymes;
popular for cutting; sow in Mar. or April;
2-3 ft; HA; space 18". Oz. 50¢.
- Pink Beauty. SAPO-13P. 30¢
Delicate rose.
- White. SAPO-13W. 25¢
Oz. 50¢.
- All Saponarias Mixed. SAPO-X. 25¢

- SAPOTA.** (sah-POH-tah)
Sapotaceae. Tropical evergreen trees; delicious fruits; grown in far South.
- Zapota. SAAPT-1. 30¢
Sapodilla. (X). Oz. 90¢.
 - officialis. SAAPT-9. 30¢
Bouncing Bet. Pink fls 1" ac; 3 ft; May-Sept; HP. ½ Oz. 50¢.

- SARACA.**
Leguminosaceae. Tropical Asian trees; fls in panicle racemes; ornamental in far S or can be grown in GH.
- indica. SARA-8. 50¢
Asoka, Sorrowless Tree of India. Small tr; orange-red fls, frag; 25 seeds \$1.75.

- SARRACENIA.** (sar-ras-SEEN-ee-uh)
Pitcher Plant, Sarraceniaceae. American insectivorous plants grown as curiosities. Native of moist places and can be grown in pots of sandy muck soil, standing in a little water; soil temperature must be low to germinate.
- purpurea. SARR-7. 35¢
Basal rosettes of weird 10" pitcher-like leaves that fill with water. Keep seed moist after sowing; acid soil.

- SASSAFRAS.**
Lauraceae. Aromatic trs of N. Amer; easy culture; lvs colored in Fall.
- albidum. SASS-5. 30¢
Sassafras. Tr to 60 ft; fls yellowish in long racemes; fr blue; Maine to Tex. Oz. d. b. 60¢.

- SETARIA.**
Gramineae. Annual and per. grasses from South; spikelets borne in terminal spike-like panicles.
- italica. SETR-3. 40¢
(S. macrochaeta) Foxtail Millet. HHA; 5 ft useful for winter decorations; cut before its ripe.

- SATUREJA.** (sat-yew-REEF-uh)
All but one species are perennial; sow in open ground in early spring.
- hottensis. SATU-15. 30¢
lvs dried or fresh; has a delightful odor and taste; delicious in salads, dried in soups; very widely used. Oz. 65¢; lb. \$4.50.
 - montana. SATU-19. 25¢
Winter Savory. Sub-sh; 15"; purplish fls; sow direct to garden; this a stronger flavor. Oz. 90¢.

- SAUSSUREA.** (soss-YEW-ree-ah)
Compositae. Temperate zone plants with heads of blue or purple disk flowers, easily grown from seed. They make nice ornamental plants in the border.
- gossypiflora. SAUS-4. 50¢
Dwarf; 6-12 inches; fls in large umbels; silvery gray; HP.

SAVORY: see *Satureja*.

SAXIFRAGA

- (sak-SIF-rah-gah) Rockfoil. Saxifragaceae. A very large genus, much prized for its flowers, both in the border or rockery; they are not hard to grow from seed and require the usual attention of all perennials; sow seed either late in the fall or early spring for best results; use a gritty soil and place in cold frame.
- aizoon, Mixed. SAX-4X. 35¢
Dense basal rosettes; fls ½" ac; 18"; HP.
 - dense. SAX-4D. 35¢
Rosettes very small and silvery; creamy fls; HP.
 - minor. SAX-4M. 35¢
Small silvered rosettes and short spikes; white flowers; HP.
 - arguta. SAX-22. 40¢
White fls with yellow spots; very small, panicles; 8"; HP.
 - Cotyledon. SAX-65. 50¢
White fls veined pink, frag, ⅜" ac; 2 ft; HP; lvs white edged.
 - cuneata infundibuliformis. SAX-70F. 40¢
Spoon-shaped lvs; HP.
 - Hostii. SAX-120. 50¢
(elator) White fls dotted purple, ½" ac; 2 ft; lvs in rosettes; HP.
 - ligulata: see *Bergenia ligulata*.
 - Albertii. SAX-130A. 50¢
Larger than type; fol. bluish gray; fls white spotted red.
 - oppositifolia. SAX-157. 50¢
Rose or purple fls, ½" ac; 2" high; densely matted; Alps; HP.
 - rosacea, Purple Manile. SAX-76P. 50¢
1 ft; deep purple; tufted; HP.
 - sarmeniola. SAX-180. 35¢
 - virginienis. SAX-200. 35¢
Leaves in rosettes; white fls, ½" ac; 1 ft; HP.
 - Encrusted Species Mixed. SAX-80. 50¢
 - Mossy Species Mixed. SAX-145. 50¢
 - Saxifraga Mixed. SAX-X. 30¢
All kinds mixed.

SCABIOSA

(skay-bee-OH-suh) Mourning Bride, Pin-cussion Flower. Dipsaceae. A very popular garden flower for sunny places; sow seeds either early indoors or later, to the open soil. In the South plant the annuals in the fall; pinch back the annuals for bushy plants and by keeping flowers cut, they will bloom all summer; light well drained soil with plenty of lime; do not disturb in Fall.

- S. ATROPURPUREA:** Sweet Scabiosa. Erect HA in many varieties; 3 ft; they are excellent cutflowers; for GH growing sow Jan. 1st.
- Blue Cockade. SCAB-3BC. 25¢
Mid-blue; large flowers.
 - Blue Moon. SCAB-3BM. 25¢
Deep lavender-blue. ½ Oz. \$1.50.
 - Cherry Red. SCAB-3CR. 20¢
 - Sulphur Yellow. SCAB-3SY. 20¢
 - Rose. SCAB-3Z. 20¢
 - Cattleya. SCAB-3CT. 20¢
 - Crimson. SCAB-3CM. 20¢
 - King of the Blacks. SCAB-3KB. 20¢
 - Dark Purple. SCAB-3P. 20¢
 - Salmon Beauty. SCAB-3SB. 20¢

PRICE: Any of above. Oz. 90¢; ¼ lb. \$2.50.

SCABIOSA SPECIES:

- alpina. SCAB-2. 30¢
Solitary lavender-blue fls 1" ac; 6"; RG;

(IV); HP.

- caucasia, House Hybrids. SCAB-6H. 30¢
One of the loveliest perennials; shades of blue; highly improved. ½ Oz. \$1.50.
- Clive Grieves. SCAB-6G. 30¢
Rich mauve. ½ Oz. \$1.50.
- Goldingensis. SCAB-6G. 30¢
Large flowered lavender. ½ Oz. \$1.50.
- Columbaria, Mixed. SCAB-7X. 25¢
Dedicate lavender and pink fls; 18"; HP.
- Pink. SCAB-7P. 25¢
- Lavender. SCAB-7L. 25¢
Bluish purple fls; HP; Dahuria.
- Fischeri. SCAB-9. 30¢
- graminifolia. SCAB-12. 30¢
Pale blue fls in flat heads, 1½" across; 1 ft. HP.
- japonica. SCAB-15. 30¢
HP; 2 ft; violet-blue fls in heads 2" ac; Japan.
- ucida. SCAB-16. 30¢
Uncommon and beautiful; pink fls in dense heads, 8"; fls in summer and aut; pink pin-cussions; sunny walls or RG; HP.
- ukranica. SCAB-27. 30¢
- Perennial Species Mixed. SCAB-PX. 30¢

SCHEFFLERA.

Araliaceae. Ornamental tropical shs and small trs; hardy in South.

- digitata. SCHE-8. 40¢
Small tr to 25 ft; greenish fls, ½" ac in 1 ft. long panicles; followed by berries; lvs give tropical effect; N. Z.

SCAEVOLA.

- frutescens v. serica. SCAE-3S. 35¢
Hawaiian Jade Tree. Both fls and fruit white; not edible; will grow near sandy beach; 3 foot shrub.

SCHIMA.

Theaceae. Ev. trs or shs from tropical Asia; fls and fruits very showy; (X).

- Wallichii. SCHM-3. 50¢
Ornamental tr to 40 ft; profusion of pretty white fls, 2" ac; yellow anthers; India.

SCHINUS.

(SKY-nus)
Anacardiaceae. Ornamental trees with small flowers in racemes or panicles, followed by fruits; not hardy in the North; they make fine lawn specimens in the South; can be grown in the GH as pot plants.

- California Pepper Tree, Peruvian Mastis Tree. Evergreen to 20 ft; yellowish fls; (X). Oz. 50¢; lb. \$2.50.
- terebinthifolius. SCHN-8. 30¢
Brazilian Pepper Tree, Xmas Berry Tree. (IX). Oz. 65¢.
- Mixed. SCHN-X. 25¢

SCHISANDRA.

(skiss-AND-ruh)
—chinensis. SCHS-1. 35¢
25 ft. climber; white or pinkish fls ½" across; fragrant; May-June; scarlet berries; Japan; (IV).

SCHIVERECKIA.

(skw-er-REK-ee-uh)
Cruciferae. Little perennials similar to Alyssum.

- podolica. ECHV-4. 50¢
Tufted; 2-4" high; white fls in short racemes; HP.

The service this catalog offers is often not fully appreciated; there is no other like it any where in the world.

PLEASE DO NOT USE COMMON NAMES

SCHIZANTHUS

(sky-ZANTH-us). Butterfly Flower. Solanaceae. Beautifully marked and unusually formed flowers in chamois, rose, lavender and purple shades; fern-like foliage; excellent for pot culture the year around or in partly shaded beds outdoors, doing best in a cool climate. Pinch back tops to induce a bushy growth; for winter flowers, start in Sept. for blooms in Feb. or plant later to flower as late as May; for summer bloom start indoors in March; they make up well in corsages and last well; germinate in 14 days.

- Dankbury, Mixed. SCHZ-1D. 35¢
Pansy-flowered strain; 16". ¼ Oz. \$1.00.
- Dr. Badger's Hybrids. SCHZ-1B. 30¢
Brilliant range with no whites; all with golden blotch; 1 ft. ½ Oz. \$1.00.
- Dwarf Boquet. SCHZ-1K. 30¢
Extra dwarf strain; brilliant colors. ½ Oz. \$1.50.
- Chislehurst Hybrids. SCHZ-1Z. 30¢
Beautiful strain in violet and purple shades. ½ Oz. \$1.30.
- Crimson Cardinal. SCHZ-1CC. 3¢3
Very large deep crimson blotched fls. ¼ Oz. \$1.25.
- Mascarade. SCHZ-1M. 35¢
Beautifully blotched flowers, mixed.
- wisetonensis. SCHZ-1W. 25¢
Valuable hybrid race; most popular type for pot culture; 18"; may be planted any month for GH growing; space plants 1 ft.
- Butterfly Mixture. SCHZ-X. 25¢
Brilliant colors; 1 ft. ½ Oz. \$1.00.

SCHIZOBASOPSIS

(skye-goh-bas-OP-us)
South African bulbs grown in the GH as a curiosity; keep bulbs dormant from May-October.

- volubilis. SCHB-1. 35¢
(Bowlea).

SCHIZOLOBIUM.

Leguminosae. Tall tree of Brazil.
Best grown from seed. Oz. \$1.00; lb. \$8.00.

- parahybum. SCHL-1. 75¢
(excelsum) Fern-like lvs; Brazil.

SCHIZOSTYLUS.

(skye-ZOSS-til-iss)
Crimson Flag, Kafir-Lily. Iridaceae. nice GH cutflower in the North.

- coccinea. SCHI-1. 30¢
Deep crimson fls, 2" across; lvs grass-like; 2 ft; TP.

SCHMA.

- Wallichii. SCHM-8. 35¢

SCHRANKIA.

(SHRAN-ki-ah)
Leguminosae. (Morongia) Amer. and Af. perennials, woody plants and shrubs.

- uncinata. SCHR-9. 30¢
Sensitive Brier. Decumbent, with stems to 4 ft long; pink fls in heads, 1" ac; (VIII); HHP.

SCHWALBEA.

Scrophulariaceae. Eastern N. American —americana. SCHW-1. 30¢
Showy spikes of yellow and purple fls, 2 ft long; found in moist sandy meadows. perennials.

SCIADOPITYS.

(sy-ad-DOP-it-iss)
Umbrella Pine. Taxodiaceae. Japanese evergreen tree; ornamental; slow growing.

Best grow from seed.

—**verticillata.**

SCIA-1. 35¢

Hardy up to Michigan; (IV); leaves small and scale-like.

SCIRPUS.

(SER-pus)

Bulrush. Cyperaceae. Grass-like plants with little spikelets; grown in shallow water or low places; sow seed during Spring.

—**Hystrix.**

SCIR-7. 40¢

(*S. natalensis*) To 6"; tufted; spikelets ¼" long; dense heads; TA. ½ Oz. 90¢.

SCILLA

Liliaceae. Attractive and popular bulbous plants with narrow basal lvs and sprays of starry flowers in blue, white or pink; ideal for rockery, woodland or border; they can also be grown in pots. (SIL-ah).

—**hispanica.**

SCIL-7. 40¢

Spanish Blue Bell. (campanulata) 2 ft; blue to rose-purple fls.

—**bifolia.**

SCIL-8. 30¢

—**hyacinthoides.** Hyacinth S. Violet-blue fls ¾" ac; HBB.

—**nonscripta.**

SCIL-12. 40¢

(Nutans) English Blue Bells. 1 ft; HBB.

—**peruviana.**

SCIL-13. 25¢

Purple to reddish or white; 1 ft; HP.

—**pratensis.**

SCIL-14. 40¢

Very small blue fls in racemes; 18"; HBB.

—**siberica.**

SCIL-15. 25¢

—**vulgare:** see *Phyllitis Scolopendrium*.

SCHOLTZIA.

—**involverata.**

SCHO-10. 50¢

1 ft; Australia.

—**leptantha.**

SCHO-20. 50¢

2-3 ft; Australia.

SCOLOPENDRIUM.

—**vulgare:** see *Phyllitis Scolopendrium*.

SCORZONERA.

(skor-zoh-NEER-uh)

—**hispanica.**

SCOR-1. 30¢

Cardoon, Black Salsify. A good root vegetable used much like Salsify; plant in early spring; can be grown as HA or HB. Oz. 35¢; lb. \$2.30.

—**lacinata.**

SCOR-4. 35¢

Perennial with lvs clustered at base and bright yellow daisy-like fls on 1 ft stems; blooms over months; Australia.

SCROPHULARIA.

(skrof-yew-LAY-fe-uh)

Figwort Scrophulariaceae. Hardy perennials planeted in the border; also a medicinal herb.

—**chrysanthea.**

SCRO-3. 30¢

Greenish yellow fls; 2 ft; HB or HP; Caucasus.

SCURVY GRASS: see *Cochlearia officinalis*.

SCUTELLARIA.

(skew-tel-LAP-ree-uh)

Labiatae. Annuals and perennials with blue violet, scarlet or yellow 2-lipped flowers in terminal spikes or racemes; for border or rockery.

—**integrifolia.**

SCUT-13. 30¢

Blue fls in spikes in early summer; 2 ft; HP. (IV).

SEAFORTHIA: see *Archontophoenix*.

—**elegans:** see *Ptychosperma elegans*.

SECHIUUM.

(SEEK-ee-um)

—**edule.**

Chayote, Christophine. These come in fresh fruits and usually arrive about April;

orders should be placed before Feb. One fruit, \$3.00, postpaid.

SEDUM

(SEED-um) Stone Crop, Live-For-Ever. Succulent or fleshy, erect or prostrate plants, mostly hardy and easily grown; popular for the rockery, walls and such places. No rock garden is complete with out Sedums; they are appealing to children. Sow seeds any time and treat like any perennial; sunny spots light sandy soil.

—**acre.**

SEDM-2. 30¢

Vigorous, spreading; mats of rich green; golden stars; 4"; HP.

—**Aizoon.**

SEDM-5. 40¢

HP; 18"; yellow to orange fls ½" ac. SIB-eria.

—**album.**

SEDM-8. 40¢

Creeping mats. 6"; N. Africa.

—**Anacampteros.**

SEDM-18. 50¢

Nearly ev. gr.; procumbent, 6"; purple fls ½" ac in summer.

—**Ellacombianum.**

SEDM-28. 40¢

(selskianum) HP to 4"; yellow fls ½" ac; round cushion-shaped plants; Japan.

—**euphorbioides.**

SEDM-42. 40¢

—**floriferum.**

SEDM-57. 40¢

Yellow fls ½" across; semi-evergreen; July-August; China; HP.

—**Leibergii.**

SEDM-76. 30¢

Fine for RG; fleshy spoon-shaped lvs; golden stars; 10"; HP.

—**maximum.**

SEDM-85. 40¢

Annual; 2 ft; greenish white fls.

—**oreganum.**

SEDM-100. 30¢

Green lvs; bright yellow, fading to a pink; HP.

—**reflexum.**

SEDM-121. 40¢

Stone Orpine. Creeping ev. gr. mats; 1 ft; bright yellow fls; HP.

—**Chamaelon.**

SEDM-121C. 40¢

Variegated leaves.

—**Elegant.**

SEDM-121E. 40¢

Compact, upright growing; 8" gray cushions; yellow fls in June-August.

—**sempervivoides.**

SEDM-138. 35¢

Red fls, ½" across; 1 ft; HBB.

—**spectabile, Brilliant.**

SEDM-146B. 40¢

Red fls 1½" across; glaucous; 18"; HP.

—**spurium coccineum.**

SEDM-148C. 30¢

Creeping mats; 6"; nearly evergreen; red fls; HP.

—**Pink.**

SEDM-148P. 40¢

Pink fls; 6" tall.

—**Tatarinowii.**

SEDM-159. 30¢

White to pink fls; 8"; China; HP.

—**telephoides.**

SEDM-166. PLANTS

Wild Live-for-ever. 6-12"; flesh colored fls; for dry sunny spots in RG; PLANTS: Each 40¢; 3-75¢; 10- \$3.25.

—**fernatum.**

SEDM-170. PLANTS

Mountain Stone Crop. 2-4"; pretty creeping ground cover for shady or semi-shady RG. PLANTS: Each 40¢; 3-85¢; 10-\$3.00.

—**Sedum Mixed.**

SEDM-X. 30¢

SELAGINELLA.

—**serpens.**

SELA-24. 50¢

SEMPERVIVUM

(sem-per-VYE-vum) House Leek. Crassulaceae. Succulent plants or sub-shrubs with fleshy leaves and very much like the Sedums. Flowers are in dense heads, white, pink, greenish yellow or purple; excellent for rockery and thrive in sandy soils, sunny places.

—**caespitosum.**

SEMP-16. 30¢

(Aeonium) Tender shrub; lovely golden

flowers.

- glaucum.** **SEMP-31. 40¢**
Red flowers 1" across; 1 ft; HP.
- ornatum.** **SEMP-69. 40¢**
Best of the House-Leeks. (S. Schlehanii v. brunneifolium); brown lvs, red in winter; 6"; rose fls.
- Mixed.** **SEMP-X. 25¢**

SENECIO

(se-NEE-see-oh) Groundsel, Cineraria. Compositae. A large and variable genus, including shrubs and trees. They are usually easy to grow from seed; a good loamy soil best. The greenhouse Cinerarias correctly belong here.

- adonidifolius.** **SENE-2. 40¢**
- ambracens.** **SENE-4. 30¢**
- Cineraria.** **SENE-15. 40¢**
(Cineraria maritima) Dusty Miller. 2-½ ft; white woolly lvs; blooms all season. **1/9 Oz. \$1.50.**
- diversifolia.** **SENE-21. 30¢**
Low growing shrub; yellow fls; hardy.
- doronicum.** **SENE-24. 30¢**
Orange Daisy. 1 ft; RG; HP.
- Double Mixed.** **SENE-25DX. 25¢**
- dryadeus.** **SENE-26. 30¢**
Native of Australia.
- elegans.** **SENE-29. 25¢**
Flower heads in loose corymbs; rays purplish. disks yellow; 2 ft; HA. ½ Oz. 90¢
- Tom Thumb.** **SENE-29T. 30¢**
Dwarf double. Choice mixed.
- Greyii.** **SENE-38. 35¢**
Yellow fl-heads, 1" ac in corymbs to 5" ac; sh! 8 ft; N. Z.
- jacqmoniana.** **SENE-30. 50¢**
Collected in the Himalayas; HP.
- leucostachys.** **SENE-34. 25¢**
Shrubby at base; RG; porch box; HHA. **Oz. 60¢.**
- candidissmus.** **SENE-14C. 30¢**
Extra good porch box plant; less stiff habit; white tomentose lvs. **Oz. 80¢.**
- Diamond.** **SENE-14D. 25¢**
Usually listed under Cineraria; foliage pure white; RG. **Oz. 80¢.**
- dryadeus.** **SENE-26. 35¢**
Forest Groundsel.
- graberii.** **SENE-37. 35¢**
Shrub to 3 ft; many butter-yellow daisies in summer; beautiful; neat leaves.
- grayii.** **SENE-38. 40¢**
Yellow flowered daisies; N. Z shrub; lvs white-felted beneath; cliff plant; 3 ft; will stand 15 degrees Far.
- lagopus.** **SENE-40. 35¢**
- macroglousus.** **SENE-43. 30¢**
Cape Ivy. Bright yellow daisies; climber; TP.
- Monroi.** **SENE-45. 35¢**
N. Z. shrub; 6 ft; fls yellow in heads a good ¼" ac; corymbs; very pretty; gray-green notched leaves.
- leucostachys.** **SENE-49. 35¢**
(S. cineraria candidissimus) Used much in porch boxes; white lvs; often listed under Cineraria.
- Purshiana.** **SENE-58. 30¢**
Light gray foliage; bright yellow heads; 8 ft; HP.
- scandens.** **SENE-66. 30¢**
Climber to 20 ft; loose panicles; yellow ray fls; 3-4 ft; HHP.
- Mixed.** **SENE-X. 25¢**

SEQUOIA.

(see-KWOI-yah)
Taxodiaceae. The large evergreen tree of California, growing to 300 ft. They grow only near the sea coast where the fogs occur.

germination is usually very low on all lots.
—**sempervirens.** **SEQU-1. 30¢**
Redwood Tree. **Oz. 75¢; lb. \$7.00.**

SEQUIADENDRON.

(see-kwoy-ad-DEN-dron) Giant Sequoia.
—**giganteum.** **SEQU-1. \$1.00**
Giant Sequoia. This is the famous giant trees of California; specimens have been grown in central N. Y. or zone (IV).

SERRATULA.

(sehr-RAT-yew-loh)
Compositae. Perennials allied to Centaurea. Flowers are either single or in corymbs, of disk flowers; good plant for the border; good late bloomers.

- coronaia.** **SERR-1. 30¢**
- Shawii.** **SERR-8. 35¢**
A compact dwarf Centaurea; dark green lvs, finely cut; fls bright purple 10"; HP.

SESBANIA.

(ses-BAY-nee-uh)
—**macrophylla.** **SESB-8. 40¢**

SETARIA.

(see-TAY-ree-uh)
Gramineae. Tender annual and perennial
—**italica.** **SETA-1. 25¢**
(S. macrochaeta) Foxtail Millet. HHA; 5 ft; useful for winter decorations; cut before too ripe. **Oz. 40¢; lb. \$3.00.**

SETICEREUS.

—**icosagonus.** **SETI-9. 75¢**

SHAMROCK.

—**True Irish.** **TRIF-20. 25¢**
For GH growing sow Dec 1st for 2" pots on St Patrick's Day; Jan. 1st for 1" pots. **Oz. 75¢.**

SHEPHERDIA.

(shep-HERD-ee-uh)
Elaeagnaceae. Shrubs and small trees, adapted to dry rocky soils and doing well near the sea shore; sow seeds in the fall or stratify.

- argentea.** **SHEP-1. 30¢**
Buffalo Berry. A thorny hedge shrub; very hardy; 1½ ft.
- canadensis.** **SHEP-2. 25¢**
Thornless; fruits red or yellow; very hardy; 8 ft.

SHORTIA.

—**galacifolia.** **SHOR-10. PLANTS**
Oceonee Bells. A rare ev. gr. ground cover; lvs resemble Galax; dainty creamy white fls early Spring; 3-6". **PLANTS: Ea. 50¢; 3-\$1.25; 25-\$8.00.**

SICYOS.

Cucurbitaceae. Annual tendrill bearing monoecious vines; Amer. and Australia.
—**angulatus.** **SICY-3. 30¢**
Bur or Star Cucumber. TA vine to 20 ft; for screens. **Oz. 50¢.**

SIDALCEA.

(sy-DAL-see-uh)
Malvaceae. Flowers are like miniature Hollyhocks, in spikes or clusters; thrive in rich sandy soils. The perennials bloom over a long time; fine for border; germinates freely in light sandy soil in pans, during April; use cold frame.

- malvaeflora.** **SIDA-7L. 40¢**
Checkersbloom. HP; 2 ft; this is a beautiful pink form.
- Stark's Hybrids.** **SIDA-55. 25¢**
A highly improved strain and extra color range; 3 ft; HP. ½ Oz. 90¢.
- Pink Shades.** **SIDA-55P. 35¢**

SILENE

(see-LEE-n-ee) Catch-fly, Campion. Caryophyllaceae. Annual, biennial and perennial plants in many species, most showy and valued both in the border and rockery. The seed of the annuals can be sown in the fall, and earlier flowers will be produced.

—**acaulis.** SILE-1. 30¢
Pink fls; moss-like tufted perennial; May-August; HP.

—**elongata.** SILE-1E. 35¢
—**alpestris.** SILE-4. 25¢
Glistening white fls, ½" ac; panicles; in June-August; 6"; HP.

—**flora pleno.** SILE-4D. 25¢
Double flowered form.

—**armeria.** SILE-6. 25¢
Bright magenta; 1 ft; HP; sow in late fall

—**Peach Blossom.** SILE-6B. 25¢
Compact; flesh color; drooping racemes.

—**pendula.** SILE-6P. 25¢
Rose and white fls; 20"; HP.

—**New Art Shades.** SILE-6A. 25¢
Dwarf; double fls; RG; HP.

—**All Armeria Mixed.** SILE-6X. 20¢

—**compacta.** SILE-20. 30¢
S. grimaldis. 2 ft; HB; pink fls in dense heads; 3" ac; July.

—**falcata.** SILE-35. 40¢
Low caespitose curly lvs; white, marked mahogany; scree; HP.

—**filibrata.** SILE-36. 30¢

—**Fortunei.** SILE-37. 30¢
Rose and white fls; best grown as HA; Sept; 3 ft; HP.

—**Frivaldskeyana.** SILE-38. 25¢
Cream to white fls; Greece; 2½ ft; HHP.

—**maritima.** SILE-62. 25¢
Pretty white fls; RG; 5"; HP.

—**pendula, Rose.** SILE-75R. 20¢
Rose fls, ½" ac; drooping racemes; 10";

HA. Oz. 90¢.

—**Bonnettii.** SILE-75B. 20¢
Purplish fls; stems brownish red; 10"; HA

—**Byou.** SILE-75Y. 20¢
Double salmon-rose fls; 10"; HA.

—**ruberrima Crimson.** SILE-75R. 35¢

—**Salmon-Red.** SILE-75SR. 30¢

—**White.** SILE-75W. 20¢

—**Triumph.** SILE-75T. 20¢
Compact double crimson; HA. Oz. 90¢.

—**Double Mixed.** SILE-75DX. 25¢

—**Shafta.** SILE-100. 25¢
Rosy purple fls; RG; 6"; HP. ½ Oz. 50¢.

—**Abbotswood Variety.** SILE-100A. 30¢

—**Zawadskii.** SILE-115. 50¢

—**Silene Mixed.** SILE-X. 25¢
All kinds mixed.

SILPHIUM. (SILL-fee-um)

Compositae. Thistle-like herbs blooming the first year from seed.

—**integrifolium.** SILP-2. 25¢
To 5 ft; fl-heads 2" across Aug-Sept; (IV).

—**lacinum.** SILP-4. 25¢
Compass Plant. Yellow fls, 2" ac; 3 ft; attractive oak-leaf foliage; (III); HP.

—**perfoliatum.** SILP-6. 25¢
Cup-Plant, Indian Cup. Flower heads 3" across, yellow; June-Sept; 6-8"; HP; (IV).

—**terebinthaceum.** SILP-12. 50¢
Prairie Dock. 10 ft; fl-heads to 10" ac; July-Sept; HP.

SILYBUM. (SIL-i-bum)

Compositae. Thistle-like herbs; bloom first year from seed.

—**marianum.** SILY-3. 25¢
(Carduus) Blessed or Holy Thistle. To

4 ft; heads 2½" ac; HA or HB.

—**terebinthaceum.** SILP-10. 40¢
Prairie Dock. 10 ft; fl-heads 3" ac; July-Sept; HP.

SIMMONDSIA.

—**californica.** SIM-1. 30¢
Goat-nut. Boxwood-like evergreen shrub to 7 ft; (VIII).

SINNINGIA

(sin-NIN-jee-ah) Gloxinia. Gesneriaceae. Brazilian plants with tuberous corm-like roots. The Gloxinia being the best known; requires a warm humid atmosphere and shade.

February-April sown seeds will produce flowering plants for winter; germinate at 60 deg. F., in sifted peat, sand and leaf-mold, equal parts; seed sown Dec. 20th produces fls June 1st; successive sowings every 2 wks till April 1st.

—**speciosa.** SINN-25. 50¢
Gloxinia. The best strain obtainable; in a blend of colors; florist strain. Trade

Packet 75¢.

—**Berlin, Mixed.** SINN-25BX. 50¢
(Multiflora) Special free-flowering florist strain.

—**Defiance.** SINN-25D. 50¢
(Benary) The scarlet Gloxinia.

—**gigantea.** SINN-25G. 50¢
Benary's famous strain; large sized fls; rich colors.

SISYRINCHIUM. (siss-ir-RINK-ee-um)

Blue Eyed Grass. Iridaceae. American grass-like perennials with small blue or yellow flowers; attractive in colonies in open moist places; easily grown.

—**angustifolium.** SISY-1. 30¢
Blue stars with yellow eyes; 6"; RG; HP.

—**Bermudiana.** SISY-2. 30¢
Large blue fls; sunny RG; 9"; HP.

—**californicum.** SISY-7. 30¢
Bright yellow fls, ½" long; 1 ft; HP.

—**Douglasii.** SISY-10. 30¢
Best species; large violet to white fls; 8"; (grandiflorum); HP.

—**graminoides.** SISY-11. 40¢
Blue fls, ¾" ac; 18"; N. S. to Texas.

—**striatum.** SISY-23. 30¢
Yellow striped fls; 3 ft; attractive; HP.

—**Mixed.** SISY-X. 25¢

SKIMMIA. (SKIM-mee-uh)

Rutaceae. Evergreen shrubs native of China and the Himalayas; small white fls in terminal panicles; very ornamental shrubs for the South; in the North it makes a good pot plant; sow seeds in cold frame during Feb. germinate freely.

—**japonica.** SKIM-1. 30¢
(S. oblata) Bright red fruits; 5 ft; HHP.

lime soil; good town sh; needs both male and female plants to produce berries.

Oz. 60¢; lb. \$5.00.

SMILACINA. (smye-las-SYE-nuh)

False Solomon's Seal. Liliaceae. Perennial rhizomatous plants; small white or greenish flowers in terminal racemes or panicles; moist part shade; nice in colonies.

—**herbacea.** SMIL-3. 30¢

—**racemosa.** SMIL-4. 30¢
False Solomon's Seal. White fls; 2 ft; red br; (IV); June; shade. PLANTS: 75¢;

3 for \$1.65. This has both an epicotyl

and double dormancy; expose moist seed to low temperature, then high and again to low and high; otherwise germination in open beds may take as much as two years.

- glycyphylia.** SMIL-7. 35¢
 - stellata.** SMIL-5. 25¢
- Wild Lily-of-the-Valley. May-June; 10"; red and black berries; HP.

SMILAX.

- herbacea.** (SMYE-lax) SMIX-8. 30¢
- Carrion Flower. Slender twining shrub to 30 inches; creamy white fls in a globe similar to *Primula denticulata*; fruits bluish black and hold on stem well.
- Kraussiana.** SMIX-14. 50¢
 - S. Af. tender climber; fol. decorative.
 - glycyphylia.** SMIL-6. 50¢

SMITHIANTHA.

- Gesneriaceae. (*Naegelia*) Tropical American plants; culture like *Gloxinias*.
- Scarlet Shades.** SNIT-1. \$1.00

SMYRNIUM.

- olusatrum.** SMYR-3. 30¢
- Black Lovage. Leaves are used in salads; sow seed in April; 4 ft; HB, treat as HA in North.

SNAPDRAGON: see *Antirrhinum*.

SOLANUM

(soh-LAY-num) Solonaceae. A large genus to which the potato and egg plant belong. A rather confused genus; the interesting species are the ornamental berried species, such as the Jerusalem Cherry. Sow seeds of the annuals, where they are to grow; the perennials can be started indoors early or handled like other tender perennials; they make excellent berried pot plants.

- aculeatissimum.** SOLN-1. 30¢
- Decorative plant; bright scarlet fruits; 2 ft; TP.
- aviculare.** SOLN-9. 35¢
- (S. *laciniatum*) Kangaroo Apple. Purplish fls, 1" across in cymes; yellow fruits; ornamental; 10 ft shrub; N. Z. 1/4 Oz. 65¢.
- Capsicastrum.** SOLN-10. 30¢
- Scarlet or orange pointed fruits, 1/2" ac; 2 ft; TP; sow seed in pans of light soil.
- carolinense.** SOLN-11. 40¢
 - integrifolium.** SOLN-27. 30¢
- Scarlet or Tomato Egg Plant. Fruits 2" across; scarlet; ornamental. 1/4 Oz. 65¢.
- Golden.** SOLN-27G. 35¢
- Ornamental Egg Plant; Golden eggs; TA.
- Khasiana.** SOLN-29. 35¢
 - marginatum.** SOLN-32. 30¢
- Yellow globose fruits, 1 1/2" across; spiny shrub; 4 ft; TSh.
- nigrum.** SOLN-35. 50¢
- Black fruits used in preserves, pies, etc; forms known as Garden Huckleberry, Wonderberry; 2 1/2 ft; TA.
- nipponense.** SOLN-34. 50¢
- A Japanese vine.
- Pseudo-Capsicum.** SOLN-36X. 30¢
- Jerusalem Cherry. Scarlet or yellow fruits; 2 ft; TP; the popular Xmas Cherry pot plant of the florist.
- nanum.** SOLN-36N. 30¢
- Small compact plant; red berries. Oz. 90¢
- Clevelandii.** SOLN-36C. 30¢
- Select foliage; bright red fruits; 18".
- Hendersonii.** New Paterson. Oz. 25¢.
- Orange-red oval fruits; nice for pots; 15".
- Hlavacek's Masterpiece.** SOLN-36H. 30¢

- Compact 15" plants; bright red fruits.
- Little Marvel.** SOLN-36LM. 50¢
- (Christmas Craigi) Small bush-like plants bearing small conical fruits, changing from green to white and yellow and later to purple and bright red; verve decorative pot plant. 1/2 Oz. \$1.30.
- Red Bob.** SOLN-36RB. 50¢
- Plant has numerous little red fruits; 12" high. 1/4 Oz. 85¢.

-
- Friesdorfer:** A new strain with long stiff stems bearing medium long conical fruits; can be used for cutting and when placed in water lasts a long time; 3 ft.
 - Red Fruits.** SOLN-36FR. 50¢
 - Yellow fruits.** SOLN-36FY. 50¢
- 1/4 Oz. 85¢.
-

- tenuifolium.** SOLN-46. 35¢
 - texanum.** SOLN-45. 30¢
- Spineless form; Scarlet Tomato; 3 ft; TA.
- Torreyi.** SOLN-48. 35¢
- Purple Fl. Nightshade. Blue star-shaped fls; dry or moist soil; (V); HP. 1/2 Oz. 50¢.
- verbascifolium.** SOLN-69. 30¢
- Tree to 30 ft; fruits yellow; (X).
- Mixed.** SOLN-X. 25¢
 - Dwarf Species Mixed.** SOLN-XD. 35¢

SOLDANELLA.

(sol-dan-NEL-lah)

Primulaceae. Perennial plants with nodding blue, violet or white fringed flowers; native of Alps; thrive in moist shady places in RG.

- alpina.** SOLD-1. 30¢

Pale blue fls in umbels; roundish lvs; 6"; HP.

SOLENANTHUS.

(sol-en-AN-thus)

- stylosus.** SOLE-3. 30¢
- Allied to *Cynoglossum* and *Lindelofia*;
- Mixed.** SOLE-X. 30¢

SOLLYA.

(SOL-yah)

Pittosporaceae. Small Australian shrubs; easy; best in pots; lime-free soil.

- fusiformis.** SOLI-2. 40¢

Australian Bluebell Creeper. (S. hetero-) blue fls in dense paniced racemes; HP.

SOLIDAGO.

(sol-id-DAY-goh)

Golden Rod. Compositae. Erect perennials with yellow Goldenrod flowers, many of which are excellent border plants; do not fertilize them too much.

- odora.** PLANTS ONLY
- Canada Golden-rod. 5-7 ft; small yellow fls in flat heads; sun. PLANTS: 55¢; 3-\$1.40
- elongata.** SOLI-17. 30¢
- Compact flower clusters of yellow fls; 3 ft; HP.
- missouriensis.** SOLI-35. 30¢
- Dwarf species; golden heads in panicles; 18"; HP.
- spectabilis.** SOLI-65. 40¢
- Dense compound heads; golden yellow; sweet scented; 2 1/2 ft; HP; Nev-Calif.

SOPHORA.

(sof-FOH-ruh) Leguminosae. Showy ornamental woody plants when in bloom; flowers in terminal panicles or racemes, followed by cylindrical or 4-winged pods. They are not hardy in the North, especially the evergreen species. The tree-like species are best increased by seeds.

- japonica.** SOPH-3. 30¢
- Japanese Pagoda Tree, Chinese Scholar

Tree. Tr 75 ft; a very good street and shade tr; (IV); fls very beautiful in Fall.

—pendula. SOPH-3P. 30¢

Oz; 50¢; lb. \$2.00. SOPH-4. 50¢

—microphylla. N. Z. tree with white fls; (IX).

—secundiflora. SOPH-6. 40¢

Mescal Bean. (IV). 100 seeds \$1.75.

—tetraptera. SOPH-7. 50¢

Small evergreen tr to 40 ft; bright golden yellow fls. 2" long; soak seeds or notch; N. Z; 75 seeds to oz. Oz. \$2.00.

—treadwellii. SOPH-11. 30¢

(Kowhei) Small tree of rather spreading habit having Maidenhair-like lvs; fls are golden yellow, a parrot's beak shape, in clusters in spring; Aust.

—viciifolia. SOPH-9. 30¢

Deciduous shrub to 8 ft; bluish violet fls in racemes; hardy in North.

—Mixed Seeds. SOPH-X. 25¢

SOPUBIA.

—angolensis. SOPU-1. 40¢

Dainty pink fls; grayish lvs; erect; (IX).

—leprosa. SOPU-4. 40¢

Deciduous branched shrubby plant; 4 ft; pale gray, almost white, lvs; pretty pure white fls; found growing in water and marshy ground; very decorative; rare; S. Rhodesia; (IX).

SORBARIA.

(saur-BAY-ri-ah) False Spirea. Rosaceae. Ornamental shs from China.

—sorbifolia. SORA-9. 30¢

6 ft; (IV). c.s. Oz. 75¢; lb. \$6.50.

—tomentosa. SORA-11. 30¢

(Spirea Lindlyana) 18 ft; Himalas. Oz.

c. s. 70¢; lb. \$4.00.

SORBUS

(SOR-bus) Mountain Ash. Rosaceae. Deciduous trees, hardy in the North; thrives in dry soils; sow seed when ripe or stratify over winter.

—alnifolia. SORB-1. 50¢

20 ft tr; East Asia. Oz. \$1.00, d.b.

—americana. SORB-2. 30¢

American Ash. Tree to 30 ft; hardy.

—Aria. SORB-5. 30¢

White Bean Tr. 50 ft. c.s. Oz. 90¢; lb.

\$8.00.

—Aucuparia. SORB-6. 30¢

European Mt. Rowan. c.s. Oz. 80¢; lb.

\$7.50.

—commixa. SORB-9. 50¢

Tree to 30 ft; fls ½" ac; Japan.

—domestica. SORB-13. 50¢

Service Tree. (VII). c.s. Oz. \$1.00; lb.

\$12.00.

—scopolina. SORB-29. 30¢

Mt. Ash. Montana; (III). Oz. 50¢; lb. \$4.50

—terminalis. ; SORB-32. 30¢

Wild Service Tr. c.s. Oz. 70¢; lb. \$6.50.

—Vilmorinii. SORB-34. 50¢

SORREL: see Rumex.

SPARANTHERA.

—species (?). SPAT-1. 30¢

California grown seed.

SPARAXIS

(spuh-RAX-iss)

Iridaceae. S. Af. bulbous plants; grow like

Ixias.

—hybrid x Strepenthera. SPAX-HS. 40¢

—Mixed. SPAX-X. 30¢

Grandiflora, tricolor and albiflora, mixed.

PLEASE DO NOT USE COMMON NAMES

SPARTIUM.

(SPAHR-tee-um)

Spanish or Weaver's Broom. Leguminosaceae. Ornamental shrubs from So. Eu. and hardy in (VI) zone. Easily increased by seed sown during Jan. or Feb; grow seedlings on in pots till planted to permanent positions.

—junceum. SPAM-2. 30¢

Spanish Broom. (Genista junceum)

(VIII). Oz. 50¢; lb. \$2.00.

—scoparium: see Cytissus scoparius.

SPATHODEA.

(spath-OO-dee ah)

Bignoniaceae. Tropical African evergreen trees suitable for the far South; they are very beautiful when in flower.

—campanulata. SPAR-2. 50¢

Orange-crimson fls; nice street tree for the South. Oz. \$1.50.

—Saier's Orange. SPAR-6G. 40¢

A new variety with orange fls.

—nilotica. SPAR-8. 50¢

Nile Flame Tree. Orange-red fls; glossy

bright foliage; pretty; (IX); seed very light.

1/8 Oz. \$1.25.

SPECULARIA.

(spek-yew-LAY-ree-uh)

Campanulaceae. Annuals resembling Bell-flowers; excellent for the rockery, border or for edging; easily grown from seed sown in March or April.

—VIOLETT.

SPEC-3V. 30¢

NEW A greatly improved form of this annual; deep violet-blue fls with white centers, borne in such profusion throughout the summer to completely cover the foliage. Excellent for beds, edging or for sowing in the RG.

—Speculum-Veneris.

SPEC-3. 25¢

Venus Looking Glass. Edging; violet-blue, bell-shaped fls, 1" across; July-Sept; 1 ft; space 6"; HA.

SPHAERALCEA.

(sfeer-RAL-see-uh)

—rivularis. SPHR-12. 35¢

(Phymosia) Globe Mallow; Wild Holly-hock. Undoubtedly the finest border plant from our Western Mts; blooms delicate mauve-pink, 2" ac; luxurious clusters on 6 ft stems; in a sunny spot well drained it will last 25 years or longer; III zone.

SPHEDAMNOCARPUS.

—furrieis. SPHD-2. 40¢

Climbing shrub; glossy green leaves;

(IX); lovely.

—pruriens. SPHD-1. 40¢

Climbing shrub; fls like rock roses; a bright yellow, ½" across; fruits winged and bright pink; very attractive; (IX); watch out for irritating hairs on seed.

SPHENOSTYLIS.

—marginata. SPHE-5. 30¢

From South Africa.

SPONDIAS.

Anacardiaceae. Tropical trees grown for

their edible fruits; frost free regions.

—magnifera. SPON-12. 40¢

Hog-Plum. Indian tree. Oz. \$1.25.

SPRAGUEA.

(SPRAYG-ee-ah)

Pussy Paws. Portulacaceae. Small alpine plants with rosettes of thick fleshy evergreen leaves and heads of fluffy pink flowers on prostrate stems; excellent in the rockery in

light shade.

—*mu...ceps*.

Dense heads, rose-purple fls; 6"; Wash-
Wyo.

SPREKELIA.

Amaryllidaceae. Mexican bulbous plants;
half hardy.

—*formosissima*.

Jacobean or St James Lily. 1 ft; fls bright
crimson; grow like Amaryllis.

STACHYS.

(STAY-kis)
Labiatae. Betony, Woundwort. Those listed
are mainly border plants.

—*olympica*.

(S. lanata) Lamb's Ear. HP; 1½ ft; valu-
able bedding pl; soft white woolly lvs.
Oz. 90¢

STACHYTARPHETA.

Verbenaceae Shrubs and perennials from
warm regions.

—*jamaicensis*.

(S. indica) TA; 4 ft; fls blue, in spikes
18" long.

SQUASH

Listed here are some of the rarer foreign
types, not usually found in the regular seed
catalog. If you have a vegetable garden, by
all means try at least one.

—*cerberus*.

Italian Marrow Squash; extra early;
deep green. Oz 50¢.

—*Naples*.

Italian summer Squash of marrow type;
excellent when stewed with tomatoes, etc.
Oz. 45¢.

JAPANESE SQUASH:

—*Uchike Kuri*.

Shape like a Chestnut; flavor of Chest-
nut; very popular for its earliness and
excellent quality.

—*Futtsu Early Black*.

Flat globe-shaped, not too watery; flesh
very thick orange of high quality.

STAPHYLEA.

(staf-il-LEE-uh)
Bladder-Nut. Staphyleaceae. Ornamental
shrubs or small trees with white flowers in
terminal panicles and bladder-like fruits;
most are hardy in the North; prefer partial
shade, moist rich soil; sow seed when ripe
or stratify till spring.

—*pinnata*.

European B. Fls in nodding racemes, 5"
long; fruits 2" long. Oz. 50¢; lb. \$4.00.

—*trifolia*.

American Bladder-nut. 15 feet high.

STAR OF TEXAS: see *Zanthisma*.

STATICE: This genus has now been re-
classified and all the species formerly list-
ed under it are now under *Armeria* or *Lim-*
onium, which see. (STAT-iss-ee).

STENANTHEIUM.

(sten-AN-thi-um)
Liliaceae. Tall plants for borders or wild
garden.

—*hustum*.

Feather Fleece. Extremely ornamental
perennial; long delicate fls, late summer;
open damp or dry places; 5 ft. PLANTS:
75¢ each; 3 for \$1.60.

STENOCACTUS.

(sten-oh-KAK-tus)
Cactaceae. Much like *Echinocactus*; Mex.
(WS, CG) Mexico; ordinary soil compost.

—*albatrus*.

6" dian; white fls, ¾" long; Mexico.

—*lamellosus*.

Blue-green stems.

—*laratus*.

—*Ochoterenai*.

Globose, 3" high, 4" diam; white to rose-
pink fls.

—*Vanpelianum*.

2" high, 3" diam; pale yellow fls

STENOCARPUS.

—*sinuatus*.

STENOCHILUS.

—*longifolius*.

15 ft; Australia.

—*maculatus*.

(*Eremophila*) 3-8 ft bush; with showy
pinkish fls; far South.

STENOLOBIUM.

—*stans*.

Yellow Elder or Yellow Bells. An erect
shrub or small tree with showy bell-shaped
yellow fls borne in clusters; native along
Gulf Coast to Fla where it is a popular
ornamental.

—*velutina*.

Leaves pubescent underneath.

STEPHANANDRA.

Rosaceae. Shrubs from Asia; fls in ter-
minal panicles or corymbs.

—*incisa*.

8 ft; Japan. Ask for lb. prices.

STEPHANOTIS.

—*floribunda*.

Madagascar Jasmine; (X). 100 seeds \$5.00.

STERCULIA.

—*colorata*.

Ornamental tree; (VIII). Oz. 65¢.

—*platanifolia*: see *Firmiana simplex*. The
Chinese Parasol Tree or Phoenix Tree.

STEVIA: see *Piqueria trinervia*. The flor-
ist Stevia.

STEWARTIA.

(stew-ART-ee-uh)
N. Amer. and Asian shrubs and trees,
with showy white fls; ornamental; fairly
hardy in the N; mixture of peat and loam
both; thrive under similar conditions as
Rhododendron; rather rare in cultivation;
acid soils; abhors lime; soak seed 2-3 days
but stir often.

—*koreana*.

Rather rare Korean tr; very choice;
should be grown more; 45 ft; (V).

—*monadelphica*.

Japanese tree to 80 ft.

—*Pseudo-Camellia*.

Tree to 50 ft; fls 2½" across, with white
stamens and orange anthers.

STILLINGIA.

—*sylvatica*.

Queen's Delight. Tassel-like fls; 2½ ft;
(VII); HP.

—*sebifera*: see *Sapium sebiferum*.

STIPA.

(STY-pa)
Spear or Feather Grass. Gramineae. Perennial ornamental grasses, with awn-like spikelets borne in panicles and very popular as an ornamental grass.

—**pennata.**

STIP-3. 20¢

Feather Grass. Attractive, densely tufted; green leaved grass with feathery plumes; 2 ft HP.

—**redowskii.**

STIPA-5. 50¢

—**semibarbata.**

STIP-7. 35¢

STIZOLOBIUM.

—**prurium.**

STIZ-6. 40¢

Cowage, Cowitch. (X). 100 seeds \$3.00.
40 seeds per ounce.

STOCKS: see **Mathiola** and **Malcomia**.

STOKESIA.

(stoh-KEEZ-ee-uh)

Stoke's Aster. Compositae.

—**laevis v. Blue Moon.**

STOK-1BM. 25¢

A pretty HP Compositae, requiring some protection in the N; easily grown from seed; well drained soil best; 18"; lavender-blue fls. 1/4 Oz. 90¢.

STRANGE.

—**cyanchicarpa.**

STRY-8. 50¢

Three feet; Australia.

STRANVAESIA.

(strau-VEEZ-ee-uh)

Very hardy evergreen shs from China; excellent fol effect in spring; the bright red fruit clusters stay on nearly all winter.

—**Davidiana.**

STRA-2. 30¢

3n to 15 ft; the best known species.

STRAWBERRY

The varieties offered here are grown from seed each year and fruit the same year; they are planted very much in Europe. It may be best to sow the seed late in the fall to germination in spring; seed sown early will produce plants with fruit the first year. plants are most compact in growth; fruits smaller than common Strawberries but of a delicious flavor. They produce fruit nearly all summer.

—**Red Fruited**

STRW-2R. 20¢

Oz. \$2.50.

—**Harzland.**

STRW-2H. 25¢

A new large red variety.

—**Rugen.**

STRW-2G. 20¢

Large red fruits. Oz. \$2.00.

—**Mixed.**

STRW-2X. 20¢

STRELITZIA.

(strel-LITT-see-ah)

Bird-of-Paradise Flower. Musaceae. So. African perennials with banana-like leaves and odd shaped fls; hardy in the far S and good tub plant in N; sow seed in good well drained soil, in pots and hold in GH; give bottom heat; needs warm temperature to germinate; nick seeds.

NOTE: Strelitzia seed is not plentiful and deliveries uncertain; you have a good chance of not getting prompt delivery.

—**augusta.**

STRT-2. 50¢

Bird-of-Paradise Flower. GH; (IX). 100 seeds \$6.00.

To 18 ft; white fls with blue tongue; lvs

—**Nicolai.**

STRT-3. 50¢

4 ft wide; (IX).

—**parvifolia.**

STRT-4. 50¢

Bright orange; blue tongue; bracts green, edged red. 2" long.

—**—juncea.**

STRT-4J. 75¢

—**Reginae.**

STRT-6H. 75¢

This is much taller; 3 ft; fl-stems to 7 ft; lvs rounded, not pointed; fls darker orange; seed takes 2-3 mo. to germinate. 65-75 degree temp. F. 100 seeds \$15.00.

STREPTOCARPUS

Cape-Primrose. Gesneriaceae. They are of easy culture and thrive in a cool GH; sow seeds in Feb. or March for flowering plants the following autumn and winter. (strep-toh-KAUR-pus); germ. erratic and sometimes slow.

—**Tetrad.**

STRP-12T. 1.00

The first tetraploid Streptocarpus; large fls and strong stems; deep crimson blotches on bright rose petals; makes attractive orchid-like cut-fls; grow in 50 degrees F.

—**Hybrids.**

STRP-4. 75¢

Gold Medal Strain. Excellent, includes all shades in well balanced proportions. 1/8 Oz. \$18.00.

—**polyanthus.**

STRP-7. 50¢

—**Rexii.**

STRP-8. 50¢

Blue or mauve flowers.

—**Wendlandii.**

STRP-10. 50¢

Violet-blue flowers; 2 ft.

STREPTHANTHERA.

—**cuprea.**

STRH-1. 35¢

S. African cormous plant belonging to the Ixia family; (IX); HBb.

STREPTOPUS.

Twisted-Stalk. Lilaceae. Perennials with creeping rootstalks; easy and fine wild garden plants.

—**amplexifolius.**

STRE-1. 40¢

Greenish white fls; 3 ft; red br; (amplexicaulis); Alaska.

—**roseus.**

STRE-7. 30¢

Rosy Twisted-stalk. Stem zig-zag; dull purplish pink fls; May-June; red fr; shade; 9-18". **PLANTS: 60¢ each; 3-\$1.50**

—**streptopoides.**

STRE-12K. 50¢

This is a miniature S. roseus not over 6" with maroon flaring bells; thrives in acid woody soils in shade of evergreens; will grow anywhere tho if acid and drained.

STROBILANTHES.

..(stro-bil-ANT-thes)

Acanthaceae. Plants and shrubs or tropical Asia, grown in the open in the South; the flowers and foliage are very attractive.

—**isophyllus.**

STRO-4. 30¢

Willow-like leaves; pinkish fls; 3 ft.

STYLIDIUM.

Stylidiaceae. Plants and sub-shs with basal or tufted lvs; fls in racemes, panicles or cymes; Australia.

—**graminifolium.**

STYD-4. 40¢

Perennial; 2 ft; yellowish fls.

STYPHELIA.

—**vireidis.**

STYP-2. 40¢

Five-Corners. Greenish tubular fls; 6 ft; Australia.

STYRAX.

(STYE-rax)

Styracaceae. Shrubs and trees with showy white fls in racemes, followed by fruits; few are hardy in the N; light soils; sow in all in pans of loamy soil and lvs, outdoors; some seed takes 2 yrs.

- americana. STAX-1. 25¢
Hardy in (IV) zone; 10 ft.
- japonica. STAX-6. 25¢
Flowering fls; 20 ft; (IV). Oz. 50¢; lb. \$3.25.
- Obassia. STAX-8. 25¢
Flowering fls; 30 ft; (IV); Japan. Oz. 75¢;
lb. \$4.50.
- Mixed. STAX-X. 25¢

SUTERA: see *Chaenostoma Burkeana*.

SUTHERLANDIA. (suther-LAND-ee-uh)

- frutescens. SUTH-1. 30¢
S. Af. shrub to 5 ft; whitish, lacy, compound lvs; clusters of glowing orange-red fls; inflated bronze pods; (VIII); a good tub plant, flowering all summer.

SUTTONIA.

Myrsinaceae. N. Z. shs and trs, hardy in the S; ornamentad; similari to Myrsine.

- australis. SUTT-3. 35¢
Small N. Z. tr; yellowish green lvs and red twigs; black fruits.

SWAINSONIA.

(swain-SOH-nuh)

- galegifolia. SWAN-3. 50¢
Swainsona Pea. A shrub to 4 ft; fern-like foliage; dark pink to mauve pea-fls; Australia.

SWEET BASIL: see *Ocinium basilicum*.

SWEET FENNEL: see *Foeniculum vulgare*.

SWEET MARJORAM: see *Origanum*.

SWEET PEAS

(*Lathyrus odoratus*) Leguminosae. In the North they should be planted very early in the spring but in the South, plant late in the fall; sow direct to the soil, spacing them about 3" apart; do not allow to go to seed as they will stop flowering. One of the common mistakes in growing them is in not giving them a strong support at the base of the wire, this swings back and forth, usu too far thus pulling the roots loose; be sure, too, to provide a support as soon as they are 1" tall; they germinate in about 10 days. The varieties offered are the very best in their color.

BUSH TYPE SPENCERS:

- Little Sweetheart. SPEA-5S. 50¢
A new and entirely different class of Sweet Peas; upright in growth, plants are 8 inches high and in a perfectly rounded bush; mixed colors. Oz. \$2.50.

SPENCER VARIETIES: The most popular for garden growing, especially in the North the (V) to (III) zones. The varieties listed are the best obtainable.

- Bonny Briar. SPEA-1BB. 25¢
Large rose-pink; excellent variety.
- Burpee Besi White. SPEA-1BW. 25¢
White seeded; a very good white variety.
- Cap-i. SPEA-1C. 25¢
Clear silver-blue; strong stems.
- Charming. SPEA-1CM. 25¢
Pretty, flushed rosy cerise.
- Chieftain. SPEA-1CH. 25¢
Pure satiny mauve.
- Elstree. SPEA-1EL. 25¢
Bright pink on cream, shaded darker.
- Excelsior. SPEA-1EX. 25¢

Dandy scarlet-orange, wings a darker shade; strong stems.

- Flagship. SPEA-1F. 25¢
Deep navy-blue shaded darker; nice.
- Flamingo. SPEA-1F. 25¢
An orange-scarlet-cerise; one of the most attractive varieties.
- Gigantic. SPEA-1G. 25¢
Fine white; black seeded; GM winner.
- Gold Crest. SPEA-1GC. 25¢
Orange tinted salmon with darker shading; very showy
- Grand Slam. SPEA-1GS. 25¢
Beautiful cerise-scarlet, suffused.
- Mastercream. SPEA-1M. 25¢
Cream; black seeds; this is an excellent cream with stiff stems.
- Mrs. R. Bolton. SPEA-1MB. 25¢
A new deep salmon-pink; very large fls.
- Mrs A. Searles. SPEA-1MS. 25¢
A bright salmon-cerise.
- Petricia Unwin. SPEA-1P. 25¢
Salmon-pink suffused gold.
- Pink Frills. SPEA-1PF. 25¢
Rich salmon-pink on cream; a GM winner; excellent variety.
- Radar. SPEA-1R. 25¢
Best salmon-pink; rich coloring.
- Red Boy. SPEA-1RB. 25¢
Pure rich crimson; long stems; vigorous.
- Welcome. SPEA-1W. 25¢
Dazzling scarlet; strong stems.
- What Joy. SPEA-1WJ. 25¢
Deep rich cream; white seeded.
- Windsor Blue. SPEA-1WB. 25¢
Clear mid-blue; excellent color.
- Youth. SPEA-1Y. 25¢
White, edged rose-pink.
- Formula Blend. SPEA-1FX. 25¢

PRICES: All above—Oz. 35¢; ¼ lb. \$1.20.

EARLY OR WINTER FLOWERING: This

group is equally satisfactory for garden or greenhouse growing. The varieties listed are the very best for greenhouse culture; all listed under their original names.

Greenhouse growing: For Xmas plant July 1st by planting 2-3 seed in 2½" pots, germ. in cool shady spot and transplant as soon as well started; field mice like Sweet Pea seed.

- American Beauty. SPEA-2A. 25¢
Rich crimson-rose, shaded deep crimson.
- Annie Laurie. SPEA-2AL. 25¢
Pure rose with white base; vigorous.
- Ball Blue Supreme. SPEA-2BS. 25¢
The best clear deep blue.
- Ball's Rose Supreme. SPEA-2BR. 25¢
Large wavy silvery rose-pink.
- Blue Boy. SPEA-2BB. 25¢
Beautiful dark blue.
- Burpee's Orange. SPEA-2BO. 25¢
Clear orange, shaded.
- Cascade. SPEA-2C. 25¢
Best white; white seeded.
- Elk's Purple. SPEA-2EP. 25¢
Large reddish purple; long stems.
- Giant Pink. SPEA-2GP. 25¢
Pink blended with soft rose; more intense on the edges.
- Grenadier Improved. SPEA-2G. 25¢
Dazzling crimson-scarlet; vigorous.
- Kate Smith. SPEA-2K. 25¢
Scarlet suffused rose; long stems.
- Mars. SPEA-2M. 25¢
A rich deep crimson.
- Mrs. H. S. Reddick. SPEA-2R. 25¢
Brilliant flesh pink, suffused salmon; immense flowers
- Treasure Island. SPEA-2ST. 25¢
Glowing intense orange with crimson shading.
- Oriental. SPEA-2N. 25¢

- Deep cream; black seeded; large flowers.
—Princess Blue. **SPEA-2PB. 25¢**
 Rich bella donna blue; vigorous.
—Shirley Temple. **SPEA-2ST. 25¢**
 Delightful soft rose-pink, fluted; long stems.
—Supreme Orange. **SPEA-2S. 25¢**
 (Zvolanek's) Cerise wings, orange standards.
—Twilight. **SPEA-2T. 25¢**
 A fine lavender.
—Zvolanek's Salmon. **SPEA-2Z. 25¢**
 Salmon-cerise; large flowers; vigorous.
—Florist Blend. **SPEA-2X. 25¢**
PRICES: Any of above—Oz. 50¢; ¼ lb. \$1.50; lb. \$3.50.

SPRING FLOWERING CUTHBERTSON:

A new intermediate season type, whose main recommendation is heat resistance. The colors are plainer and not as good as in the Spencers. They should be grown in the South where the regular types are not satisfactory.

- Formula Blend.** **SPEA-3X. 25¢**
 Especially grown from separate colors proportioned according to our own formula for maintaining the best color range. Oz. 80¢; 4 oz. \$1.75.
—Butterfly Hybrids. **SPEA-4B. 25¢**

A very gay and striking blend of striped colors in an unbelievable number of attractive color combinations. This variety has excellent vigor with four huge blooms on a strong stem. A new and unusual variety that should be grown in every flower garden. ½ oz. 50¢.

FLORIBUNDA CLASS:

This new strain from the early flowering Cuthbertson type possesses all the good points of the type but will under proper conditions produce 5 or more blooms per stem and of better formed flowers; extremely vigorous; long stemmed; heat resistant and suitable for the South.

- Catherine.** **SPEA-5C. 25¢**
 Beautiful salmon-rose on cream ground.
—Evelyn. **SPEA-5E. 25¢**
 Best salmon on cream ground.
—Frank G. **SPEA-5F. 25¢**
 Best deep lavender.
—Kenneth. **SPEA-5K. 25¢**
 The best crimson in this type.
—Robert. **SPEA-5R. 25¢**
 Best blue with lavender cast.
—Formula Blend. **SPEA-5X. 25¢**
 This is not a mixture but a carefully made blend. Oz. 85¢; 4oz. \$1.90.

PERENNIAL SWEET PEAS: see *Lathyrus*.

SWEET WILLIAM: see *Dianthus barbatus*.

SWERTIA.

- chiretta.** **SWER-1. 40¢**
 Yellow fls; a useful medicinal herb. Oz. \$1.00.
—bimaculata. **SWER-2. 25¢**
 White, tinted green and dotted black and yellow.
—multicaulis. **SWER-4. 25¢**
 From Himilayas; 3 inches; HP.
—speciosa. **SWER-9. 30¢**
 White fls with dark blotches; Himalayas; HP.
—Mixed. **SWER-X. 25¢**

SWIETENIA.

Mahogany. Meliaceae. Tropical evergreen trees; dark red wood; the Mahogany of com-

merce.

- macrophylla.** **SWIE-2. 35¢**
—Mahoganii. **SWIE-3. 50¢**
 Mahogany. 65 seeds to oz. 100 seeds \$3.00.

SYAGRUS.

- campestris:** see *Cocos campestris*. Palm.
—Weddelliana. **SYAG-5. \$1.00**
 Sow in January in flats; a good pot plant for GH; 100 seeds \$6.00. Orders should be placed well in advance at least 6 months. 50 seed to ounce.

SYMPHORICARPOS. (sim-for-ik-KARP-os)

- albus.** **SYMC-2. 30¢**
—orbiculatus. **SYMC-8. 50¢**
 (S. racemosa) Waxberry. c.s. Oz. 75¢; lb. \$11.00.

SYMPLOCOS.

(sim-FLOH-kos)

Sweet-leaf. Symplocaceae. Trees and shrubs of ornamental value; seeds are slow to germinate.

- myrtaceae.** **SYMP-4. 50¢**
 From Japan.
—paniculata. **SYMP-1. 30¢**
 Deciduous tree; 30 ft; white, fragrant fls; blue fruits; HTR. Oz. 60¢; lb. \$4.00.
—thaefolius. **SYMP-3. 30¢**

SYMPHYANDRA.

Campanulaceae. Biennials and perennials resembling Campanulas; white or violet fls, nodding, bell-shaped. Grow as for Campanulas; good sandy loam bts.

- Hofmannii.** **SYMD-3. 30¢**
 White or violet nodding fls 1½" long in terminal panicles; 2 ft; Bosnia; (IV).

SYNCARPIA.

(syn-CAR-pee-ah)

Myrtaceae. Australian ornamental trees with white flowers; hardy in the South.

- glomulefera.** **SYNC-1M. 50¢**
 Turpentine Tree. Handsome tr to 150 ft; warm regions; showy cream fls; good foliage; curiously formed seed cases.

SYNTHYRIS.

(SINTH-uh-riss)

Scrophulariaceae. Native N. Amer perennials with basal leaves and wheel-shaped, 4-lobed fls in spikes or racemes; for border.

- Hendersonii.** **SYNT-3. 30¢**
 Sky-blue fls, ¼" long; RG; 3 ft; HP.
—nova. **SYNT-12. 50¢**
 Blue fls; found at 10,000 ft; Utah; HP.
—Paysonii. **SYNT-13. 50¢**
 Alpine; found at 9,500 ft; Idaho.
—rhoda. **SYNT-22. 40¢**
 White woolly leaves tinged red; (III); HP.

SYRINGA.

(sihr-RIN-guh)

- Lilacs. Oleaceae.
—amurensis v. japonica. **SYRI-2J. 35¢**
 Manchurian Lilac. Oz. \$1.00.
—vulgaris. **SYRI-32. 30¢**
 Lilac. Seed saved from the best named varieties with some good reds. Oz. c. s. 50¢; lb. \$3.00.
—flore albo. **SYRI-32F. 30¢**
 Oz. 75¢; lb. \$7.00.

SYZYGIUM.

Myrtaceae. Tropical trees and shrubs similar to Eugenia.

- Cuminii.** **SYZY-5. 50¢**
 Jambolam-Plum. Tree to 30 ft; fruit edible; E. Indies; far South. Oz. 95¢.

Please do not order by the common name!

TABEUIA.

(tab-eh-BOO-yuh)

Bignoniaceae. Tropical evergreen trees and shrubs; they are very beautiful; thrives in rich soil; (X).

—*pallida*.**TABE-4. 40¢**

Tree to 50 ft; fls 3" long; evergreen; (X); tropical.

TACCA.

(TAK-ah)

Taccaceae. A curious and interesting tropical genus as well as ornamental; excellent pot plants or out doors in far S; fls striking.

—*cristata*.**TACC-3. 40¢**

GH plant; basal lvs, 2 ft. long, 6" wide; dark purple green.

TALINUM.

(tah-LY-num)

Flame Flower. Portulacaceae. Many small fleshy perennials with erect clusters of pink, red or yellow flowers. Some hardy, others grown in tubs indoors during the winter.

—*okanogense*.**TALI-4. 40¢**

A wee plant $\frac{1}{2}$ " high, covered with $\frac{1}{4}$ " pearly fls; HP.

—*paniculatum*.**TALI-5. 25¢**

Red to yellow fls in panicles; 2 ft; (IX).

TALAUMA.

Magnoliaceae. Tender evergreen trees of Asia and S. America.

—*Hodgsonii*.**TALA-8. 50¢**

Tree to 60 ft; fls terminal to 6" ac, cup-shaped and spice-like fragrance; the seed should be fresh and orders will be held till they arrive.

TAMARINDUS.

(tam-ah-RIM-dus)

Tamarind. Leguminosae. Tropical evergreen trees grown in the far South for ornament; the fruits are edible and used in drinks. Best in deep rich soil with plenty of moisture.

—*indica*.**TAMA-1. 40¢**

Tamarind. Tall tree; pale yellow fls. 1" across; (XI); germinate seeds with bottom heat.

TAMARIX.

(TAM-uh-ris)

Tamariceae. Deciduous trees and evergreen trees and shrubs; heath-like lvs; will stand salt sprays; ornamental.

—*gallica*.**TAMX-7. 30¢**

French Tamarisk. (V); cover seed lightly. Oz. 50¢; lb. \$2.00.

TANACETUM.

(tan-ah-SEE-tum)

Tansy. Compositae. Annuals and perennials grown as a medicinay herb as well as ornament.

—*balsamita*; see *Chrysanthemum Balsamita*.

Old-fashioned herb; yellow daisy-like fls on 2-3 ft stems; young lvs in spring used in salads; has a minty flavor.

—*He-deri*.**TANA-4. 40¢**

Common Tansy. This is very showy in decorations as a dried fl; 3 ft; HP.

—*vulgare*.**TANA-8. 25¢**

Common Tansy. Herb; 3 ft; HP.

TARCHONANTHUS.

(tar-sho-NAU-thus)

—*camphoratus* v. *litakunsi*. **TARC-1. 30¢**

Wild Sage. Shrub; masses of pale yellow fls; seeds in a cottony ball; very attractive; S. Rhodesia; (IX).

TARRAGON: see *Artemisia Dracuncul.*

PRINT THE SYMBOLS WHEN ORDERING

TAXODIUM.

(tax-OH-dee-um)

Bald Cypress. Taxodiaceae. Trees with needle-like leaves and fls in catkins. In the S sow seeds in December or very early spring or stratify in sand or peat for 30-60 days; mulch seed beds; germinates in 40-90 days.

—*distichum*.**TAXO-2. 30¢**

Bald Cypress. (IV). Oz. 40¢; lb. \$3.00.

TAXUS.

(TAX-sus)

—*baccata*.**TAXU-1. 30¢**

English Yew. Sow seed in spring.

—*fastigiata*.**TAXU-1F. 35¢**

Oz. 60¢; lb. \$3.50.

—*pyramidalis*.**TAXU-1P. 30¢**—*canadensis*.**TAXU-3. 40¢**

Ground Hemlock. Straggling sh to 6 ft.

—*cuspidata*.**TAXU-6. 30¢**

Japanese Yew. Oz. 90¢; lb. \$4.00. c. s. It is recommended to seed in moist peat for 90 days at around 70 degrees F, then for 120 days at 40 F and then sow when seed should germinate at once.

TECOMA.

(tek-KOL-muh)

Bignoniaceae. Shrubs; fragrant yellow or orange fls; grown in South, standing but a few degrees of frost.

—*grandiflora*; see *Campsis grandiflora*.—*radicans*; see *Campsis radicans*.—*Smithii*.**TECO-7. 35¢**

Australian shrub; (VI). Oz. 90¢.

—*stans*; see *Stenolobium stans*. Yellow Bells.

TECOMARIA.

(tek-oh-MAY-ree-uh)

Bignoniaceae. Partially climbing evergreen shrubs with fls in dense terminal racemes or panicles; (X).

—*capensis*.**TECM-2. 40¢**

(Bignonis c.) Cape Honeysuckle. Fls orange-red, followed by fruits; (IX).

TECTONIA.

Verbenaceae. Trees of tropical regions.

—*grandis*.**TECT-2. 40¢**

Teak. (X). 100 seeds \$7.00.. 45 seeds to oz.

TELEKIA: see *Buphthalmum*.

TELLIMA.

Saxifragaceae. Perennials of W. N. Amer; suitable for wild garden; much like Mitella.

—*grandiflora*.**TELL-5. 40¢**

Greenish fls turning to pink; 2 ft; Alaska.

TELOPEA.

Proteaceae. Australian ornamental shrubs; with red flowers in dense terminal head-like racemes; (IX); see Banksia for lack of root hairs and planting.

—*speciosissima*.**TELO-4. 40¢**

N. S. W. Waratah. 8 ft; fls in globular heads, 2" across; very ornamental.

TEMPLETONIA.

(temple-TOH-nee-uh)

Cocky's Comb or Red Bush.

—*retusa*.**TEMP-12. 40¢**

W. Australia shrub with masses of red fls in winter and spring; 4-6 ft; GH; (X). 100 seeds \$2.00. Coral Bush.

TEPHROSIA

(Crocca) Leguminosae. Plants or shrubs with red, purple or white fls in racemes, followed by flat pods.

—*candida*.**TEPH-1. 25¢**

Shrub to 10 ft; white fls 1" long; pods

4" long; India.

—*pubescens*.

S. Rhodesian species; (IX).

—*virginiana*.

Yellowish purple fls, $\frac{3}{4}$ " long; Me. to Fla;

HP.

Oz. 75¢.

—*vogalii*.

TEPH-4. 35¢

TEPH-7. 30¢

TEPH-8. 30¢

TERMINALIA. (ter-min-NAY-lee-uh)

Indian Almond. Combretaceae. Pretty trees grown in the far South. Flowers are in racemes or spikes; easy.

—*Arjuna*.

80 ft tr; dark brown fruits; India. Oz.

—*calamansanii*.

Evergreen shade tree of South Seas; (X).

—*myricarpa*.

Tropical; a valuable timber tr; dark rose flowers in profusion; X zone.

TETRAHEMA: see *Allophyton mexicanum*.

TETRAPANAX. (tet-RA-pan-ax)

Araliaceae. Shrubs or small trees from warm regions;

—*papyrifera*.

Grown in the South; fls in umbels.

TETR-1. 25¢

TETRAPATHAEA.

—*tetrandra*.

Slender climber with grossy lvs; fls greenish yellow; orange fruits; very showy and useful; fr. edible and relished by Pheasants; N. Z.

TETP-1. 30¢

TEUCRIUM.

Labiatae. Germander. Tender plant for the GH or far South; few hardy in North for the RG.

—*Chamaedrys*.

Low glossy round bush; miniature Orchid-like fls; sun or shade; fine for edging hedges or borders; rose-pink fls in loose whorles; HP.

—*hircanicum*.

HP; 2 ft; purple or red fls in dense spikes; Caucasus.

TEUC-10. 35¢

TEUC-15. 50¢

THALICTRUM

Meadow Rue. Ranunculaceae. Perennials with flowers in panicles or racemes, without petals but with numerous drooping stamens. Some are very showy in masses in the border, others in the wild garden; easily grown, in well-drained loamy soil (thal-LIK-trum).

—*adiantifolium*.

(T. minus) Greenish yellow; fine cut foliage; 18"; HP Oz. 80¢.

—*aquilegifolium*.

Dainty and pretty; white fluffy or cream fls; 3 ft; HP.

—*Chelidoni*.

Soft lavender, purple and white fls; showy; dwarf (IX); Himalayas.

—*dipterocarpum*.

Rose-mauve with drooping golden stamens; 4 ft; a beautiful plant and a must in every border; HP. $\frac{1}{2}$ Oz. 75¢.

—*flavum*.

Yellow with bright yellow stamens; 4 ft; HP.

—*foetidum*.

Nodding greenish red fls; 3 ft; HP.

—*minus*.

Listed under many botanical names; 18"; fls greenish yellow; Eu. and N. Africa

—*polygamum*.

Tall Meadow-rue, 4-8 ft; white fls in lge clusters; July-Sept; sun; moist, open places

THAL-5. 25¢

THAL-8. 40¢

THAL-14. 35¢

THAL-17. 25¢

THAL-19. 25¢

THAL-28. 30¢

THAL-36. 25¢

HP. PLANTS: 65¢; 3 for \$1.60.

—*virginatum*.

Pure white flowers.

—Mixed.

THAL-44. 30¢

THAL-X. 25¢

THEA.

(THEE-ah)

Theaceae. Evergreen trees and shrubs with showy white or pink nodding flowers; hardy in the (IX) zone.

—*sinensis*.

Tea. Shrub to 20 ft; lvs used for the tea of commerce; (IX).

THEA-4. \$1.00

THELESERMA.

(thel-ess-SPERM-uh)

Compositae. Some 10 species of American annuals and perennials, much like *Coreopsis*.

—*ambiguum*.

Brown-Eyed-Susan. Fl-heads with broad yellow rays, $1\frac{1}{2}$ " long; purplish disks turning brown; Colo; HP. Oz. 95¢.

—*intermedium rubro-distum*. THEL-5R. 40¢

THEL-1. 25¢

THELOCACTUS.

(thel-oh-KAK-tus)

Cactaceae. Mexican globular Cacti; fls bell-shaped.

—*bicolor*.

4" diam; purplish pink fls, 2" long

—*chiloensis*.

—*leucacanthus*.

Long pale straw-colored spines.

—*lophothele*.

10" salmon or yellow fls, 2" ac; Mex.

—*phymatothele*.

2" tall, 4" diam; pink, margined yellow fls

2" long; Mexico.

—*Pottsii*.

Globular; 3 by 5"; white fls, $1\frac{1}{2}$ " long.

—*uncinatus*.

—*Wagnerianus*

THEK-2. 75¢

THEK-5. 75¢

THEK-14. 75¢

THEK-16. 50¢

THEK-23. 50¢

THEK-25. 50¢

THEK-31. 40¢

THEK-33. 75¢

THEMEDA.

—*australis*.

Kangaroo Grass.

THEM-1. 30¢

THERMOPSIS.

(ther-MOP-siss)

Leguminosae. Easily grown perennials in open sunny positions; flowers are Lupin-like, in racemes. Sow seeds in the fall or spring over heat; useful in the border.

—*caroliniana*.

Carolina T. 3-5 ft; yellow fls in terminal racemes; May-June; very showy in masses; rich soil; open places; C-24; HHP. $\frac{1}{4}$ Oz. 60¢. PLANTS: 75¢ each; 3 for \$1.60.

—*lanceolata*.

Very hardy perennial; 1 ft; yellow fls in racemes.

THER-1. 25¢

THER-5. 25¢

THESPESIA.

(thess-PEEZ-ee-uh)

Penny Cress. Malvaceae.

—*populnea*.

One of the "tree hibiscus" group; p evergreen tree to 25 ft. bearing yellow hibiscus-like fls, turning purple by evening; resists salt spray; good street tree.

THES-1. 30¢

THEVETIA.

(thee-VEE-tee-ah)

Apocynaceae. Tropical trees and shrubs with large funnellorm showy flowers in terminal cymes, followed by fruits, a fleshy drupe. Grown under glass in the North; will thrive in rich sandy soils.

—*peruviana alba*.

White Oleander. Tree to 30 ft; white fls; fragrant.

THEV-1A. 25¢

THLASPI.

(THLASP-ee)

Penny Cress. Cruciferae. Annuals and

perennials, hardy in the North, with white, rose or purplish flowers; good RG plants; some have large flat ornamental pods; easy.

- apessire*. THLA-1. 25¢
Tufted basal lvs; fls white, tinged red; 1 ft; HP.
- densiflorum*. THLA-9. 25¢
- patcox*. THLA-12. 25¢
(Jankia) White fls; 1 ft; basal lvs in rosettes; HP.
- siyusum*. THLA-15. 25¢
Rose fls in dense racemes; small alpine; H.P.

THOMSONIA.

Aracaea. Tropical Indian flowering plants.
—*upia* is THOM-1. 50¢
Tropical plants; 2 ft. 100 seeds \$3.00; 500 \$10.00.

THAINAX *argentea*: see *Coccothrinax*.

THRYALLIS.

(thrye-AL-liss)

Malpighiaceae. Tropical shrub; can be grown in GH in North.

- glauca*. THRY-3. 35¢
(Galphimia) Everblooming in Australia; fls in clear yellow, in spikes; really nice tropical shrub; (X).

THRYLOMENE.

- australis*. THRP-2. 50¢
4 ft; Australia.
- baeckea*. THRP-7. 50¢
2 ft; Australia.
- hyperbys*. THRP-16. 50¢
1 ft; Australia.
- Kochii*. THRP-20. 50¢
2 ft; Australia.
- mucronulata*. THRP-26. 50¢
2 ft; Australia.
- racemulosa*. THRP-32. 50¢
3 ft; Australia.
- Strongylophylla*. THRP-39. 50¢
4 ft; Australia.
- tuberculata*. THRP-45. 50¢
3 ft; Australia.

THUJA

(THEW-jah) Arbor-Vitae, Cedar. Pinaceae. Very popular flat-leaf evergreens; very hardy. The seed germinates freely from spring sown seeds; leave seed bed till second spring; decayed wood or moist peat in seed bed is good.

- occidentalis*. THUJ-3. 25¢
- aurea*. THUJ-3A. 25¢
- orientalis*. THUJ-4. 25¢
Seed should be sown early in the spring when it germinates readily.
- aurea*. THUJ-4A. 25¢
- Beverleyensis*. THUJ-4B. 75¢
Golden Pyramidal Cedar. 100 seeds \$3.00.
- compacta*. THUJ-4C. 25¢
- elegantissima*. THUJ-4E. 50¢
Compact; bright yellow foliage in spring.
- Oz. 90¢; lb. \$4.50.
- pyramidalis*. THUJ-4P. 35¢
Oz. 80¢; lb. \$2.80.
- plicata*. THUJ-10. 40¢
gigantea, Lobbii) Giant Arbor Vitae. Alaska-Calif. Oz. \$2.00; lb. \$12.00.
- Standishii*. THUJ-15. 35¢
Japanese A Tr to 50 ft. Oz. 90¢.

NOTE: We can supply most of the commercial species and varieties, in quantity lots; these will be listed in the next catalog which will be printed within 60 days or by January.

THUJOPSIS.

(thoo-YOR-sis)

Hiba Arbor-Vitae. Pinaceae. Pyramidal evergreen trees to 50 ft, allied to Thuja; Japan.

- dobrabra*. THUO-1. 50¢
Hatchet-Leaf Cedar. Ornamental; (IV). Oz. 90¢; lb. \$7.00.

THUNBERGIA.

(thun-BURJ-ee-ah)

Clock Vine. Acanthaceae. Tender climbers from tropical regions and grown in the GH to be set out doors during the summer; they can be planted out side in the South; start seed early in Feb or Mar; fls in 15 wks; pot singly to small pots; will twine up cords..

- coccinea*. THUN-3. 40¢
Orange fls with yellow throat; heavy climber; India.
- fragrans*. THUN-5. 25¢
Slender climber for GH; white fragrant fls 2" across.
- Gibsonii*. THUN-7. 25¢
Twining; TP; from E. Af; orange fls 2" long; (X); GH; 275 seeds to oz.

THYMOPHYLLA.

(tye-moh-FILL-uh)

Dahlberg Daisy. Compositae. Low growing annuals and perennials from S. and C. Amer.

- tenuiloba*. THPH-1. 25¢
An excellent bedder; 1 ft; blooms in 4 months; full sun.

THYMUS

Thyme. Labiatae. Aromatic plants with a profusion of small flowers; they all like dry sunny locations and are easily grown from seed; they are liable to winter-kill in heavy soils.

- mastachinus*. THYM-17. 40¢
- Serpyllum*. THYM-23. 25¢
Prostrate sub-shrub; purplish fls; HP.
- coccinea*. THYM-23C. 35¢
- lanuginosus*. THYM-23L. 25¢
Woolly Thyme. Very gray hairy lvs; does not flower well.
- vulgaris*. THYM-24. 25¢
Common Thyme. Erect sub-shrub.
- Broad-leaf Winter*. THYM-24B. 25¢
Also called English Thyme.
- German Winter*. THYM-24W. 25¢
Oz. \$1.50.
- French Summer*. THYM-24S. 25¢
An excellent garden herb.

TIARELLA.

(tye-uh-RELL-uh)

Saxifragaceae. Much like low growing Heucheras; their lvs are especially showy; they want stand too dry or sunny places; little shade best.

- cordifolia*. ALLEGHANY Foam-flower. White fls in May-June; shade; IV; 6-12". PLANTS: 55¢; 3 for \$1.40.
- trifoliata*. TIAR-6. 40¢
Stemless; white fls; Alaska.
- Wherryi*. TIAR-7. 50¢
Blooms from spring to fall; white fls flushed pink; 10"; HP.

TIBOUCHINA.

(tib-oo-KYE-nuh)

Glory Bush. Melastomaceae. Tree-like shrubs of tropical Amer; grown in GH or in the South, standing probably to 30 F.

- bicolor*. TIBO-1. 50¢
A very choice and rare species from Brazil; (X).

—**semidecandra.** **TIBO-8. 50¢**
(*Pleroma macranthum*) Purple fls 5" ac;
Brazil.

TIGRIDIA. (ty-GRID-ee-ah)
Tiger Flower. Iridaceae. Bulbous plants
from Mexico to Chile; the bulbs should be
lifted in the fall and stored like *Gladiolus*.
—**Pavonia.** **TIGR-8. 40¢**
2½ ft; showy fls in mixed colors.

TILIA. (TILL-ee-ah)
Basswood, Linden, Lime. Tiliaceae. Sow
seeds in the fall or stratify; they thrive in
any soil as long as it does not dry out.
—**americana.** **TILI-1. 30¢**
American Linden. Tall tr. Lb. \$1.80.
—**europaea grandiflora.** **TILI-6. 30¢**
(*platyphyllos*) Oz. 50¢; lb. \$1.20.
—**platyphyllos.** **TILI-20. 30¢**
Large Leaf Linden. Oz. 50¢; lb. \$2.00.
—**tomentosa.** **TILI-21. 30¢**
White or Silver Linden; (*argentea*). Oz.
50¢; lb. \$1.75.

TINNEA. (tin-NEE-ah)
Labiateae. Herbaceous or somewhat woody
plants with whorls of 2-lipped tubular purple
flowers; tender in North.
—**abysinnica.** **TINN-1. 25¢**

TIPUANA. (tip-yew-AN-ah)
Tipu Tree. Leguminosae. S. Amer. trees
with showy flowers in panicles; ornamental
as well as the source for Rose-wood; (X).
—**Tipu.** **TIPO-1. 30¢**
(*speciosa*) Yellow fls followed by pods
3" long; 30 ft; 75 seed oz. Oz. 90¢.

TITANOPSIS.
These should not be watered during the
winter; they are ery liable to rot off dur-
ing the resting period; growth April- Oct.
—**setifera.** **TITA-12. 50¢**

TITHONIA

(ti-THOH-nee-ah) Mexican Sunflower.
Compositae. Robust growing plants from
Mexico; tender annuals; start seed early and
transplant out doors when frost danger has
passed.

ROTUNDIFOLIA: (*speciosa*)
—**TORCH.** **TITH-2T. 25¢**
The new G. M. Winner; orange-red fls;
3 ft; TA.
—**diversifolia.** **TITH-1. 35¢**
(*Mirasolia d.*) TP or TSh; 30 ft; orange-
yellow fl-heads, 6" ac; Mexico.

TOBACCO: see *Nicotiana*.

TOMATOES: Ornamental Kinds.
Small fruits with tough skin that dries
and does not decay; grown much like orna-
mental Peppers or Cherries. **TOM-1. 20¢**

TOMATO: Garden Varieties.

PONDERHEART.

A very smooth giant fruit with no disc at
blossom end, practically crack proof; very
small seed cavity; selected for years from
crossing of *Ponderosa* and *Oxheart* and
perfectly fixed.
Pkt. 15¢; Ox. \$1.00.

TOFIELDIA.

Liliaceae. A genus of perennials with fib-
rous roots and small flowers in terminal
racemes.
—**calyculata.** **TOFI-2. 40¢**

TORENIA

(toh-REEN-ee-uh) Scrophulariaceae. Flor-
ida Pansies. Tropical perennials grown in
the GH or as annuals in the North; in Flor-
ida they are used as a substitute for Pansies.
The flowers are 2-lipped and much like *Glox-*
inias; shady places, rich soils; sow Mar. at
60 F. and follow with plantings in 2-3 months
—**Fournieri, Mixed.** **TORE-4X. 30¢**
Rich blue with golden centers; good for
pots or bedding; 9"; TP. ½ Oz. \$4.00.
—**Blue.** **TORE-4B. 30¢**
—**White.** **TORE-4W. 30¢**
—**nana, BLUE.** **TORE-NB. 35¢**
—**White.** **TORE-4NW. 35¢**
Dense habit; white corolla, with yellow
blotch; 9"; TP. ½ Oz. \$4.00.
—**Mixed.** **TORE-4NX. 30¢**

TORREYA. (TORR-ee-uh)
Taxaceae. Evergreen trees native of N.
America and Asia; yew-like lvs; hardy to
(III); similar to *Taxus*.
—**nucifera.** **TORR-4. 50¢**
Japanese tree hardy in (IV) zone in
sheltered places; to 75 ft. Lb. \$2.00.

TOWNSENDIA. (toun-SEN-dee-ah)
Compositae. Biennials and perennials re-
sembling Asters very much; white, rose to
violet fls with rays; not commonly grown but
excellent for the rockery.

—**alpina.** **TOWN-1. 50¢**
Charming plant with narrow silvery lvs;
neat rosettes, each with an inch-wideaisy
in the middle; rare.
—**exscarpa.** **TOWN-2. 25¢**
Stemless, 1" tall; mauve with yellow
disk; RG; pretty; HP.

TRACHELIUM. (trak-KEEL-ee-um)
Campanulaceae. Throatwort. Perennials
form the Medit. region; blue or purplish fls
in dense terminal heads.

—**caeruleum.** **TRAH-3. 30¢**
Deep blue fls; like Valerian; GH in N;
good for bedding; also pot plant; sow in
March, grow on in pots; set out in May;
VI; 3 ft.

TRACHELOSPERMUM.

(trak-el-oh-SPER M-um) Apocynaceae.
Twining evergreen vines hardy only in the S.
—**fragrans.** **TRAC-3. 25¢**
White fls; pods 9" long; tall climber; TP.
handsome broad lvs; large white scented
fls patched yellow in center; 125 seeds to
ounce.

—**jasmínoides.** **TRAC-4. 50¢**
Star or Confederate Jasmine. (IX); GH.

TRACHYCARPUS. (trak-ik-KARP-us)
Palmaceae. Windmill Palms. Natives of
Asia and of medium growth; they are prob-
ably the hardiest Palms.

—**Fortunei.** **TRAP-3. 35¢**
Windmill Palm. (VIII). Oz. 70¢; lb. \$4.00.
(*Chamaerops Excelsa*); 75 seeds to oz.

Another Catalog will be issued during
the summer; it will contain new seeds.

Give some 2nd choice items when ordering

TRACHYMENE. (trak-KIM-en-ee)

Umbelliferae. Australian plants having fls in white or blue, in simple umbels; sow in spring where they are to grow or they can be grown in the GH during winter for spring planting.

—**caerulea.** **TRAM-1. 35¢**
(*Didiscus caerulea*) Blue Lace Flower; 2 ft; HA; start indoors early in March and set out as soon as frost has passed; soil fairly rich.

TRADESCANTIA. (trad-es-KANT-ee-ah)

Spiderwort. Commelinaceae. Perennials with blue, rose, purple and white flowers in umbels; grown indoors or in hanging baskets or they can be grown in the borders.

—**Beauty Blend.** **TRAD-X. 20¢**
Hardy species; 3 ft; HP.

TREVESIA.

Araliaceae. Tropical shs or trs usually grown in the GH.

—**palmata.** **TREV-10. \$1.00**
(*Gastonia palmata*) 20 ft; yellowish white fls, 1" ac; GH; moist conditions; the seed must be fresh so order early.

TRICHINIUM.

Amaranthaceae. Plants from Australia and suitable for warm regions or the GH in N.

—**Manglesii.** **TRIN-20. 50¢**
2 ft; Australia.

TRICHOCEREUS. (trik-oh-SEER-ee-us)

(Cactaceae) S. Amer; erect or procumbent; formerly in *Cereus*.

—**chiloensis.** **TRIC-9. 50¢**

TRICHOLAENA.

Gramineae. Mostly HHP ornamental grasses with silky-hair spikelets.

—**rosea.** **TRIA-1. 40¢**
(*Natal-Grass*, *Ruby-Grass*) 4 ft; grow as an annual; panicles 10" long; opens pink or reddish brown; showy.

TRICHOSANTHES. (trik-os-ANTH-eez)

Climbing Gourd. Fruit to 3 ft long, coiled snake-like; male and female plants; warm, sunny spots; try starting seed in small pots; transplant in June.

—**Anguina.** **TRIH-1. 40¢**
Serpent, Snake or Club Gourd. Climber; long fruits; interesting to children.

TRICHOSPORUM. (tri-KOS-poh-rum)

Gesneriaceae. (*aeschynanthus*) Excellent hanging plants for the warm GH; open fibrous soil.

—**Lobbianum.** **TRIM-6. 50¢**
Showy orange fls with yellow throat; fine for hanging baskets.

TRIFOLIUM. (trye-FOH-lee-um)

Clover. Leguminosae. Those listed have ornamental value.

—**alpinum.** **TRIF-4. 25¢**
Red fls in loose heads; 4"; HP.

—**repens.** **TRIF-20. 20¢**
Shamrock. This and *Oxalis acetosella* said to be the true Irish Shamrock; HP.

—**atropurpureum.** **TRIF-20P. 25¢**
Deep bronze-red foliage with green margins; HP.

TRIGONELLA. (trye-gon-NELL-uh)

Leguminosae. Plants with trifoliolate fol-

iage.

—**coerulea.** **TRIG-3. 30¢**
Blue and white fls; 2 ft; HA.
—**foenum graecum.** **TRIG-6. 30¢**
Common Fennreek. Seeds of medicinal value; 2 ft; Y HA. Oz. 75¢; lb. \$2.00.

TRILLIUM. (TRIL-i-um)

It has an epicotyl dormancy both in root and shoot; seed held at 5 degrees C for 3 months and then in GH temperature for 3 months and then at 5 degrees C for 5 months is proper treatment; untreated seed requires 2 winters for green leaves.

For bulbs of the species *cernuum*, *erectum*, *grandiflorum*, *luteum*, *sessile*, *stylosum*, *undulatum*, see native wild flower plant list in back part of this catalog; they move best in the fall; can quote in quantity

—**erectum.** **TRIL-10. 50¢**
To 1 ft; brown or greenish purple fls, 1 inch long; hardy.

—**grandiflorum.** **TRIL-12. 40¢**

—**undulatum.** **TRIL-30. 40¢**
(*T. erythrocarpum*) To 2 ft; fls white veined purple; HP; (IV).

TRIOSTEUM. (try-OS-tee-um)

Horse Gentian, Feverwort. Caprifoliaceae. Perennials of rather coarse habit.

—**perfoliatum.** **TRIO-5. 25¢**
Horse-Gentian, Tinker's Weed, Wild Coffee. Ornamental purple fls, ¾" long; followed by orange-yellow fruits; (III); 2-4 ft; HP.

TRIPTERIS. (TRIP-ter-is)

Compositae. S. Af. plants and shrubs, not hardy in the North; flowers are daisy-like both ray and disk flowers; plant early in the spring.

—**hyoseroides.** **TRIP-1. 25¢**
Golden yellow fls with black disks; 2 ft; pretty; HA.

TRISTANIA. (tris-TAY-ni-ah)

Myrtaceae. Shs and trs of Malaya and Australia. Grown out doors in warm regions; (IV).

—**conferta.** **TRIS-3. 35¢**
Brisbane Box, Queensland Bush Box. Tr to 150 ft; white fls, ¾" ac; fruits; Australia.

TRITOMIA: see **Kniphofia**. Red-Hot-Poker

TRITONIA. (trye-TOH-nee-uh)

Iridaceae. Cormous plants from S. Af; hardy in N or they can be handled as for *Gladiolus*.

—**crocata v uninata.** **TRIT-2M. 35¢**
Bright red or scarlet fls, 2" ac; Calif.

—**Squalida.** **TRIT-12. 40¢**
White or pinkish fls with yellow blotch.

—**Mixed.** **TRIT-X. 25¢**
Culture same as for *Gladiolus*; (IV).

TROCHODENDRON.

Trochodendraceae. Japan and Korean evergreen trees.

—**aralioides.** **TRUC-3. 50¢**
To 60 ft; bright green fls, ½" ac, in 3 ft; racemes; Japan. Oz. \$1.00.

TROLLIUS

Globe Flower. Ranunculaceae. Are nice spring flowering plants in the border if planted in a low moist place with some shade; colors are yellow or orange and in form Buttercup-like; the seed requires a good cold spell be-

fore they will germinate; C-24. (TROL-i-us).

—**albiflorus.** TROL-2. 35¢
The beautiful foliage makes solid mats for miles in Mt. meadows; fls large, white; likes moisture first part of season; III; HP.
—**europaeus.** TROL-8. 50¢
Globe Flower. Lemon-yellow fls, 2" ac; 2 ft; HP.

—**Golden Sun.** TROL-8G. 30¢
Orange and yellow shades. ¼ Oz. \$1.75.
—**Orange Princess.** TROL-8P. 25¢
A pretty orange variety; 1 ft; HP. ½ Oz. 90¢.

—**Ledebouri.** TROL-19. 25¢
Pure orange, flowering about a month later than T. europaeus varieties; 2 ft; a sunny spot in bog garden; HP. ½ Oz. \$1.90.
—**patulus.** TROL-19P. 25¢
Soft yellow fls; 2 ft; for the brookside; HP.

—**pumilus.** TROL-20. 40¢
Yellow fls, 1" ac; 1 ft; Himalayas; HP.
—**Trollius Mixed.** TROL-X. 25¢

TROPAEOLUM. (trop-PEE-ol-um)
Nasturtium. Tropaeolaceae. Only one genus, the well known Nasturtium, which see. They are tender to frost; quick growing and popular.

—**peregrinum.** TROP-7. 25¢
Canary-Bird-Flower. A nice TA climber with canary-yellow fls, 1" across; 10 ft.

TSUGA. (TSEU-gah)
Hemlock. Pinaceae. Evergreen trees native of Asia and N. Amer. They make ornamental trees and popular in the young stage.
—**canadensis.** TSUG-1. 35¢
Oz. \$1.00; lb. \$12.00.
—**diversifolia.** TSUG-4. 50¢
Small-leaf Japanese Hemlock. Oz. \$1.70.
—**heterophylla.** TSUG-8. 40¢
Western Hemlock. Oz. \$1.50; lb. \$14.00.
—**Mertensiana.** TSUG-10. 40¢
Mountain Hemlock. (Pettoniang); (II). Oz. \$4.00
—**Sieboldii.** TSUG-13. 40¢
Branchlets glabrous; Japan. Oz. 80¢.
lb. \$9.00.

TUBEROSE: see *Polianthes tuberosa*.

TULBERGIA.

Lilaceae. Tropical plants similar to Agapanthus. They can be grown outdoors in the S and a good pot plant in the North.

—**violacea.** TULB-3. 25¢
From S. Af; 30".
—**South Rhodesian species.** TULB-5. 25;

TULIPA

Tulip. Liliaceae. Growing Tulips from seed is interesting, especially so with the species which come true from seed; seed germinates slowly and their growing is a challenge.

—**Batainii.** TULP-3. 25¢
Pale yellow; early; 6".
—**biflora.** TULP-4. 25¢
RG species; star-like fls, white or yellow; 5 inches.
—**turkestanica.** TULP-4T. 25¢
Larger leaves; 4-5 flowers to stem.
—**Clausiana v. chrysantha.** TULP-9C. 25¢
Golden yellow vase-shaped fls; 6".
—**Fosterana.** TULP-15. 25¢
Large crimson flowers; robust growth.
—**Kaufmanniana.** TULP-25. 25¢
Beautiful; Water-lily-like; white, yellow and pink; 8".
—**Gaiety.** TULP-25G. 25¢

—**Kolpakowskiana.** TULP-26. 25¢
—**praesians.** TULP-41. 25¢
Light red; Bokhara.
—**iarda.** TULP-52. 25¢
(dasytemon) Small; yellow fls.
—**Mixed.** TULP-X. 25¢

TULIP TREE: see *Liriodendron*.

TUNICA. (TOO-nik-uh)
Tunic Flower. Caryophyllaceae. Herbaceous annuals and perennials similar to the *Dianthus* in growth but smaller; for edging or the rockery.

—**saxifraga.** TUNI-2. 25¢
Tufted; spreading; pink fls; RG; HP. Oz. 90¢.

—**alba.** TUNI-2A. 35¢
—**rosea.** TUNI-2Z. 35¢
A pink form of Tunic Flower. (Coat-fl).
—**Verutina.** TUNI-6. 40¢
Ev. gr, HP; 1 ft; tufted; pink fls in summer; rocks or dry bare, poor soils; on banks or slopes. Oz. \$1.00.

TUPIDANTHUS.

Araliaceae. Tropical plants for far South.
—**calyptratus.** TUPI-5. 75¢

TURBINOCARPUS.

—**Schmeeduteanus.** TURB-12. 50¢
TWEEDIA: see *Oxyptalum*.

TYPHA.

Typhaceae. Cat-tail. Seed can be started in pots standing in water.
—**angustifolia.** TYPA-3. 50¢

ULETEROSIDEROS.

—**tomentosa.** ULET-12. 35¢
Blood-red fls; tree to 50 ft; N. Z.; (X).

ULEX.

(EU-leks)
Furze, Gorse, Whin. Leguminosae. Shs. good for poor sandy soils; do not transplant easily; sow seeds where they are to grow.
—**europaeus.** ULEX-1. 30¢
Grose, Whin. Sow in late spring; (VIII). Oz. 60¢; lb. \$4.50.
—**nanus.** ULEX-3. 35¢
2 ft. Oz. 50¢.

ULMUS

UL-mus. Elm. Ulmaceae. Popular shade and street trees; most all are hardy in the N; best to plant seed as soon as possible after ripening.

—**alata.** ULMS-1. 35¢
Wahoo E. 50 ft tr; Va-Tex; V.
—**americana.** ULMS-2. 40¢
Water Elm. c.s. lb. \$2.50. Frest seed about June 1st.
—**glabra.** ULMS-7. 25¢
(montana) Oz. 90¢; lb. \$3.50.
—**parvifolia.** ULMS-14. 50¢
English Elm. (campestris). Oz. 90¢; lb. \$2.75.
—**procera.** ULMS-15. 35¢
English Elm. (campestris). Oz. 50¢; lb. \$1.25.
—**pumila.** ULMS-20. 30¢
Ddarf Elm. Oz. 90¢; lb. \$2.75.

NOTE: Most Elm seeds ripen in May or June and quantity orders should be placed well in advance that the seed may be collected.

BOOKS: Ask for special garden book list; there was not room Catalog for it.

UNIOLA.

(YEW-nee oh lah)

Gramineae. N. Amer. perennial grasses with prominent 2-edged spikelets borne in panicles.

—*latifolia*.**UNIO-1. 25¢**

A pretty border plant; 5 ft; HP.

URSINIA.

(ur-SIN-ee-uh)

Compositae. S. Amer. annuals and perennials, the flowers Daisy-like, solitary or loosely clustered; sow seeds early indoors or direct to soil; treat as an annual in the North.

—*anthemoides*.**URSN-3. 25¢**

Jewell-of-the-Veldt. Colors from lemon-yellow to orange, each with a purple zone around the center; RG; cuts; June-Sept; 15" HA. Oz. \$1.20.

—*calendulaeflora*.**URSN-4. 30¢**

Shaded orange-yellow; 15".

—*caendulae*.**URSN-5. 35¢**—*cakillifolia*.**URSN-5. 25¢**

Yellow or orange.

—*pulchra compacta*.**URSN-7. 25¢**

Rich orange fls, 2" ac; rays purple; 2 ft; HA. 1/2 Oz. 90¢.

—*Aurora*.**URSN-7A. 30¢**

Bright orange with a showy crimson zone. 1/2 Oz. 90¢.

—*Mixed*.**URSN-X. 25¢**—*New Hybrids*.**URSN-1H. 25¢**

NEW. Varied colors. 1/4 Oz. 75¢.

URTICA.

(ur-TY-kah)

Nettle. Urticaceae. Grown for medicinal properties; some for ornament.

—*dioca*.**URTI-3. 40¢**

Stinging Nettle. 4 ft; HP; medicinal. This is one of the main ingredients of the compost activators.

—*utilis*: see *Boehmeria nivea*.**VACCINIUM.**

(vak-SIN-ee-um)

Blueberry, Cranberry. Ericaceae. Hardy shrubs and trees grown for ornament or for their edible fruits and all thriving in rather acid soils of a peaty sandy nature. Sow the seed in the fall or stratify till spring.

—*canadense*.**VACC-S. 30¢**

Deciduous; blue fruits; 1-2 ft; HSh.

—*macrocarpon*.**VACC-17. 50¢**

Cranberry.. 6-8 f seedlings; peat bogs; berries in late summer. 10-24 seedlings at 28¢ each.

—*Myrtillus*.**VACC-18. 30¢**

Wortleberry. d.b. Oz. 50¢; lb. \$2.50.

—*Oxycoccus*.**VACC-22. 40¢**

Small C. Creeping to 1 ft; pink fls in May-July; Alaska.

—*parvifolium*.**VACC-27. 40¢**

10 ft; decid; pinkish white fls; red fruits; Alaska.

—*Mixed*.**VACC-X. 25¢****VALERIANA.**

(val-eer-ee-AY-nuh)

Valerian. Valerianaceae. Perennials and shrubs with small white or rose flowers in cymes or spikes, very easy; nice in border; they are very fragrant.

—*coccinea*.**CENS-4. 35¢**

Beautiful fls of a deep dark red; 3 ft; especially suited for bouquets; sow in the open ground early in sp or in Sept, carrying plants over winter under glass, bedding out in spring in a sunny place.

—*officinalis*.**VAL-12X. 25¢**

Garden Heliotrope. Popular; pink, red, and white fls; 4 ft; HP.

—*White*.**VAL-12W. 25¢**—*Red*.**VAL-12R. 25¢**—*Broad Leaf*.**VAL-12B. 30¢**

AGerman variety requiring a good rich and moist soil; good in marshy places.

Oz. \$1.90.

—*Elder-Leaf*.**VAL-12E. 30¢**

Especially good for marshy and partly shaded places.

—*rubra*: see *Centranthus rubra*.**VALERIANELLA.**

(val-lee-ri-ah-NEL-ah)

—*ecrocarpa*.**VALR-3. 25¢**

CORN SALAD. Lamb's Lettuce. HA; lvs used in salads during winter or spring; sow seed during Sept, 1/2" deep in drills, rows 10" apart; lvs are the parts used; pick off plant when young and crisp.

Oz. 50¢; lb. \$2.00.

VALLOTA.

(val-LOH-tah)

—*speciosa*.**VALL-1. 25¢**

S. Af. tender bulb; handle like *Amaryllis*; good indoor pot plant; fresh seed about March.

VANHEERDIA.—*divergens*.**VANH-3. 50¢****VELTHEIMIA.**

(velt-HY-mee-ah)

Liliaceae. Bulbous plants from S. Af; they are *Gladiolus*-like plants; not hardy and must be lifted in the fall; good in the South.

—*veridifolia*.**VELT-4. 25¢**

African bulbous plant; fls yellow tinged red; 1 1/2 ft; TBb.

**VENIDIUMS****VENIDIUM.**

(ve-NID-i-um)

Compositae. Hardy annuals and perennials of S. Af; suggest small Sunflowers; nice in border; also cuts; full sun; well drained soil.

—*decurrens*.**VENI-2. 25¢**

Heads of golden yellow fls with dark centers; 2 ft; HHA.

—*hirsutum*.**VENI-6. 25¢**

Orange fls; 18"; HHA.

—*Variety*.**VENI-6V. 25¢**

Cream with black zone; 18"; HHA.

VERATRUM.

(ver-RAY-trum)

False Hellebore.. Liliaceae. Perennials with thick roots; easy; border or wild garden.

—*nigrum*.**VERA-5. 40¢**

Blackish purple fls in panicles; lvs 1 ft long, 8" wide; 4 ft; HP.

VERBASCUM.

(ver-BASK-um)

Scrophulariaceae. Mostly tall hardy biennials; makes fine specimens in the back of

the border.

—Harkness Hybrids. VERS-9H. 30¢

—Hinkei. VERS-12. 30¢

Huge sulphur-yellow candles.

—Lychnitis. VERS-19. 30¢

—Olympicum. VERS-25. 30¢

Yellow fls; woolly lvs; 6 ft; sow outside in April; warm sunny places; can be grown as a HA.

same culture as *V. olympicum*.

—paniculata alba. VERS-28. 30¢

—pheniceum hybrids. VERS-31. 30¢

Purple and red fls in racemes; 4 ft; HP.

—simplex. VERS-36. 30¢

(giganteum) Similar to *Thapsus* and *lustranicum*.

—speciosum. VERS-39. 40¢

—thapsiforme. VERS-42. 30¢

Aaron's Rod. Yellow fls; woolly lvs; 3 ft.

—Thapsus. VERS-45. 35¢

Common Mullein. Tall weed; one of the best know herbal cures for deafness of the middle ear due to catarrh; 8-10 ft; HB.

—virgatum. VERS-50. 30¢

Yellow or white fls 1" ac; small stalked clusters; 4 ft.

—Mixed.. VERS-X. 30¢

VERBENA

(ver-BEE-nuh) Verbenaceae. Mainly perennials and highly prized for their profuse blooming; in the North they are grown as HA but in the far South as perennials; start indoors for early bloom; space 1 ft. apart; sunny places; germinate best at 60 F.

TEUCRIOIDES: Most of the popular garden varieties belong to this species. There are many new improved form developed in recent years.

—Auricle-Flowered. VERS-1BA. 30¢

Gigantea, mixed. Oz. \$2.00.

—Crystal. VERS-1C. 30¢

Pure white fls, otherwise same as Sparkle; good mixed together.

—Dwarf Upright. VERS-1DR. 30¢

Rainbow Strain. A lovely blend of colors not common in separate varieties; includes buff, apricot, blue, lavender and mauve. A large share of these blooms have a large eye of a beautiful contrasting color; upright growth. ¼ Oz. \$1.75.

—Spreading Type. VERS-1SX. 25¢

Mammoth fls on spreading type plants. Mixed colors.

SPARKLE.

VERS-1S. 25¢

NEW. An entirely new class of Verbena; habit is dwarf and compact and completely eliminates the open or bare spots that develop in the centers of plants of the regular strains. SPARKLE is the sharpest color yet offered in Verbenas—a bright scarlet-red, greatly intensified by a large gleaming white eye. Oz. \$5.00.

—Florist Dwarf Compact. VERS-1DC. 25¢

NEW. Extremely uniform plants, dwarf and compact in habit, blooming 2-3 weeks earlier than regular strains. All plants produce blooms with eyes of bright contrasting shades, giving a harmonizing color combination of eyed kinds; many colors not found in other strains. It has special value for Florist use and flat growers, as it kill produce flowers in the flat; good also for pots and bedding. Oz. \$4.00.

—Floradale Beauty. VERS-1F. 25¢

Rose shades; extra large flowers. ½ Oz. \$1.50.

—SPARKLE, MIXED.

VERB-1SX. 35¢

This is really a hybrid race of the Sparkle type and includes the warm scarlet-red of Sparkle thru rose and pink to the softest tones of salmon, lavender and crystal white as well as mid-blue and purple; a high percentage will be the eyed-type in many bright color combinations; 10" tall. ¼ Oz. \$2.75.

—Hybrida grandiflora.. VERB-1B. 20¢

New bush type. New brilliant blend of colors; dense flat heads, closely massed across the flat-topped plants; 8-10".

—Colosssa, Mixed. VERB-1BX. 30¢

Large flowered French strain. Oz. \$2.00.

OTHER SPECIES:

—bipinnatifida. VERB-2. 25¢

Lilac-purple fls in loose clusters; showy; HP.

—bonariensis. VERB-3. 25¢

Lilac fls in dense spikes; 4 ft; HA.

—canadensis v. compacta. VERB-5C. 25¢

Large fls; grow as annual; mixed colors.

—hasiata. VERB-10. 25¢

Blue Vervain. Many 6" spikes of small blue fls, late in summer; 5 ft; HP.

—lacinata. VERB-21. 25¢

Violet fls in short clover-like heads; grow as an annual.

—officinalis. VERB-23. 40¢

Common Vervain. 2 ft; a weedy herb; HP.

—rigida. VERB-31. 35¢

(*V. venosa*) Erect per.; vervain; 1-2 ft; bright reddish fls in dense spikes; excellent bedding plant. ½ Oz. \$1.30.

LEMON VERBENA: see *Lippia citriodora*.

VERBESINA.

(ver-bes-SYE-nuh)

Compositae. Amer. plants and shrubs with yellow, orange or white flowers; solitary or in panicle heads.

—enceliodes. VEBE-3. 25¢

Golden yellow rays, 2" across; TA:

VERNONIA.

(ver-NOH-nee-uh)

Ironweed. Compositae. Herbaceous perennials in the N and trees and shrubs in the South; flowers are showy and in purple, pink or white heads of disk flowers, in terminal clusters. They bloom late in the summer and autumn; border or wild garden.

—altissima. VERN-1. 25¢

Purple heads ½" across; 10 ft; (IV); HP.

—gerberae-foryis. VERN-5. 30¢

Large purple-blue Cornflowers; S. Rhod.

—glabra. VERN-6. 25¢

Deep blue; 1-2 ft; good for cutting; So. Rhodesia; TP.

—melleri. VERN-12. 25¢

Sky-blue fls; large plant; TP; S. Rhod.

—noveboracensis. VERN-20. 40¢

9 ft; deep purple heads, ½" ac; HP.

VERONICA.

(ver-RON-ik-uh) Speedwell. Scrophularaceae. Annuals and perennials popular in the rockery or border; hardy, free flowering and thriving in a sunny or light shady spot; easy.

—Chamaedrys. VERO-25. 30¢

Germander Speedwell. Blue fls; 18".

—filiformis. VERO-32. 40¢

Blue fls on thread-like stems; annual or perennial; S. Europe.

—fruticans. VERO-33. 25¢

Blue fls on short racemes; shrubby; 6";

- gentianoides.** **VERO-35. 35¢**
(*glabra*) Pale blue fls in loose racemes;
1 ft.; May-June; attractive ev. gr. mats of
lvs; HP.
- Guthrieana.** **VERO-44. 30¢**
Neat evergreen with blue fls; 9"; HP.
- holophylla.** **VERO-47. 30¢**
Upright fl-spikes in richest blue; glossy
foliage; 14"; good; HP.
- intona.** **VERO-40. 30¢**
Blue fls in racemes; 6" long; 2 ft; Russia.
- latifolia.** **VERO-42. 35¢**
(*V. elatior*, *Teucrium*) 2 ft; royal blue fls
in panicle racemes. ¼ Oz. \$1.50.
- var. Royal Blue.** **VERO-42RB. 40¢**
(*V. longifolia* v. *excelsa*) HP; 2 ft; lilac
fls in racemes.
- officialis.** **VERO-59. 40¢**
Prostrate HP ground cover; pale blue fls.
- pirrala.** **VERO-60. 35¢**
3 ft; HP; blue fls in many-fl'd racemes;
Russia.
- rupestris rosea.** **VERO-79. 25¢**
Neat pink carpet; 2"; HP.
- spicata, Mixed.** **VERO-85. 20¢**
Blue, reds, pinks and white; 18"; HP.
- var. Blue Shades.** **VERO-85B. 30¢**
Rich blue flowered strain; extra good for
cutting. ½ Oz. \$1.00.
- spuria.** **VERO-72. 40¢**
(*paniculata*, *amethystina*) Blue fls in
panicled racemes; 2 ft; HP.
- Dwarf Varieties.** **VERO-80DX. 25¢**

VERTICORDIA.

Myrtaceae. Australian, heath-like shrubs
for warm regions.

A beautiful genus of about 48 species of
Australia; all excellent cut-flower; a little
hard to grow.

- brownii.** **VERT-4. 50¢**
4-5 ft; Australia.
- chrysantha.** **VERT-9. 50¢**
3 feet; Australia.
- densiflora.** **VERT-15. 50¢**
- gracilis.** **VERT-27. 50¢**
- grandis.** **VERT-29. 50¢**
3-6 ft s; has largest fls, 1" dia; long
bloomer; warm sandy soil; W. A.
- erhelliana.** **VERT-21. 50¢**
- muelleriana.** **VERT-36. 50¢**
3 ft; a striking species with showy pink
fls; gravelly stony soil best; W. A.
- monadelpha.** **VERT-32. 50¢**
- nitens.** **VERT-39. 50¢**
2-4 sh; showy in bloom; dense masses
of golden yellow fringed fls; moist sandy
heath soil; prune after flowering; W. A.
- picta.** **VERT-43. 50¢**
- plumosa.** **VERT-45. 50¢**
- Preissi.** **VERT-47. 50¢**
- Roei.** **VERT-56. 50¢**
- serrata.** **VERT-60. 50¢**
- spicata.** **VERT-50. 50¢**
2 ft sh; very small lvs; dense heads of
fringed daisy-like fls; good cut; likes
sandy soil; W. Australia.

VESICARIA.

- (ves-ee-KAIR-ee-ah)
- gracea.** **VESI-2. 30¢**
Bladder-pod. Yellow fls; inflated pods;
(VI) HP.
- utriculata.** **VESI-6. 40¢**
1½ ft; HP.

VESTIA.

- lycioides.** **VEST-8. 50¢**
Hardy in Calif; a good pot plant for GH.

Seeds of most Shrubs and Trees do NOT
form seeds every year and thus shartages.

VIBURNUM

(vy-BURN-um) Snowball. Caprifoliaceae.
One of the most popular ornamental shrubs.
They also make excellent refuge for birds
as well as food during the winter, all kinds
of wild-life relish their berries. Seed can
be planted in the fall in border lands or
edges of woods or stratify them for spring
planting; they germinate readily.

acerifolium. **VIB-1. 25¢**
Maple-leaf V. White fls in cymes in the
spring, followed by purplish black fruits;
foliage turns reddish in fall; has epicotyl
dormancy in seed; HSH.

cassinoides. **VIB-13. 30¢**
White-rod. White fls in cymes 5" across;
June-July; fruits bluish black; (III); 12 ft.

geniatum. **VIB-20. 25¢**
Arrow-wood. White fls on long stemmed
cymes; (III); 15 ft.

dilatatum. **VIB-21. 30¢**
White fls; heads 5" across; fruits scarlet;
10 ft; Japan. Oz. 65¢; lb. \$4.00.

fragens. **VIB-25. 25¢**
White or pink fragrant fls in panicles,
2" long; black fruits; 10 ft.

Laniana. **VIB-36. 35¢**
Wayfaring Tree. Sow seed in fall or
early spring. c.s. Oz. 50¢; lb. \$2.60.

Lentago. **VIB-37. 30¢**
Sheep-Berry. Nanny-Berry. Very hardy;
(II); 30 ft; cymes 5" ac; May-June.

neurosum. **VIB-43. 30¢**
Himalayan species.

White fragrant fls; red fruits turning
odoratissimum. **VIB-46. 30¢**
black; 10 ft; evergreen. Oz. 70¢; lb. \$4.50.

opulus. **VIB-47. 25¢**
Cranberry-bush. c.s. Oz. 75¢; lb. \$4.00.

pauciflorum. **VIB-48. 40¢**
5 ft; fls in 1" heads; Alaska.

platicum v. tomentosum. **VIB-50T. 25¢**
White fls in cymes 4" across; Japan; 10 ft.
Oz. 60¢; lb. \$4.00.

rhynchophyllum. **VIB-56. 25¢**
Yellowish white fls; China; 10 ft. d.b. Oz.

Sargentii. **VIB-60. 30¢**
Flowers in 4" cymes; scarlet fruits; 12 ft.
Oz. 60¢; lb. \$4.50.

Sieboldii. **VIB-65. 30¢**
Creamy white fls in panicles, 4" long; 10
ft; Japan. Oz. 60¢; lb. \$5.00.

Tinus. **VIB-68. 35¢**
Laurestinus. 10 ft; evergreen; pinkish
fls in cymes, 3" ac; good for GH. Oz. 50¢;
lb. \$1.50.

tomentosum. **VIB-69. 40¢**
White fls in long stalked cymes 2" ac;
frs red, turning black; 10 ft; China. Oz. 70¢.

trilobium. **VIB-70. 40¢**
(*americanum*, *oxycoccus*) Cranberry Bush
12 ft; white fls in cymes 4" ac; May-June;
hardy shrub.

Wrightii. **VIB-77. 30¢**
White fls in cymes, 4" across; Japan; 10 ft.
Oz. 60¢; lb. \$4.50.

Mixed. **VIB-X. 25¢**

VICIA.

(VIS-ee-ah)
Vetch. Leguminosae. Tendril climbers;
many uses.

Cracca v. Gerardii. **VICI-8G. 20¢**
Cow Vetch. HP; violet fls; more pubes-
cent. Oz. 75¢.

hyb. Schmeewehe. **VICI-8S. 30¢**
White flowers.

VIDORELLA.

(vid-o-RELL-ah)
Seeds from South Rhodesia.

residifolia. **VIDO-1. 25¢**

Small bright yellow globular fl-heads; (X).

VIGNA.

(VIG-nah)

Leguminosae. Annuals with Sweet Pea-like flowers; not extra hardy.

—Catjang.

VIGN-1. 50¢

(Catjang) Vine-like; (X); grow as an annual. Oz. \$1.00.

—espuipedalia.

VIGN-10. 25¢

Asparagus or Yard-long Bean. Pods 2-3 ft long; edible as snap beans; different.

VIMINARIA.

—denudata.

VIMI-8. 50¢

Pretty little tree of weeping habit; 10-15 ft; small yellow pea-fls; mulched soil required; Australia.

VINCA.

(VIN-kah)

Erect or trailing plants; useful for ground cover or in vases or hanging baskets; thrives in moist shady places; Periwinkle (Apocynaceae).

—minor.

VINC-1. Plants

Periwinkle. Ev. gr. ground cover; RG; very popular. PLANTS ONLY: (Strong) Each 35¢; 3-85¢; 25- \$5.00.

—rosea, Mixed Colors

VINC-4X. 25¢

Sow seeds early in a warm place; a popular vine grown in GH for vase and window-box work.

ROSE CARPET.

VINC-4RC. 40¢

Creeping Vinca. A new type of creeping habit instead of upright growth; it covers about 2 ft of ground; excellent for border, hanging baskets or RG; especially good in the South.

—Pure White.

VINC-4W. 25¢

—Crimson.

VINC-4C. 25¢

—Delicata.

VINC-4D. 30¢

A soft pink with dark eye.

—Kermesina.

VINC-4K. 35¢

A tall growing type to 18"; color darker than in Purple Rose.

—White with Pink Eye.

VINC-4B. 25¢

—Soft Pink.

VINC-4P. 25¢

—Rose.

VINC-4R. 25¢

All above: Oz. \$2.00; lb. \$17.50.

—Coquette.

VINC-4DC. 35¢

NEW. Dwarf growing; 6"; Pinkie.

—Bright Eyes.

VINC-4BE. 40¢

NEW. A dwarf type similar to Coquette but in pure white with rose eye; goes well with Coquette.

—UPRIGHT ROSE.

VINC-4PZ. 40¢

A new type. Tall straight growth to 18".

VIOLA

(vye-OL-uh) Violet. Violaceae. The genus contains many attractive herbaceous perennials and a few annuals. The Violet and Pansy are the two most popular, both thriving in a rich soil and partial shade. During winter they require a mulch of leaves. The germination of Violet seed is different from Pansies; and the most successful results will be had by sowing Viola seed in flats in the fall and leaving them out all winter in the snow, when they germinate the first thing in the Spring; Pansies and Violas make excellent pressed owers and hold their color well.

VIOLA CORNUTA: Horned Violets. More

or less tufted Violets. They come in many varieties, of which, the best and most pop-

ular are listed here. They do best in partial shade, rich moist soil and where it does not dry out during the summer.

TOYLAND VIOLAS

NEW. An F2 Hybrid Viola miniature produced by the same method so successful in producing the famous hybrid Pansies.

Hugh full round and rich 2" blooms, gracefully waved and borne profusely with hybrid vigor, on sturdy compact plants. In pure colors and combinations of mahogany-red, gold, apricot, blue, purple, white and violet-black. A most outstanding appeal. 1/16 Oz. \$1.30.

TOYLAND.

VIOL-1TL. 50¢

LARGE FLOWERED TYPE:

—Admiration.

VIOL-1D. 25¢

A large dark blue.

—Arkwright Ruby.

VIOL-1A. 25¢

Rich crimson with dark eye. 1/2 Oz. \$3.50

—Bicolor.

VIOL-1B. 25¢

Light violet-blue; very pretty.

—Blue Gem.

VIOL-1BG. 25¢

Jersey Gem. Compact violet-blue.

—Blue Perfection.

VIOL-1BP. 40¢

A real nice light blue. 1/4 Oz. 90¢.

—Chantrellyland.

VIOL-1C. 25¢

Pure apricot; free flowering. 1/2 Oz. \$2.80.

—Georgia Peach.

VIOL-1GP. 35¢

A new huge peach colored bloom; good.

—Jersey Gem.

VIOL-1JG. 25¢

—White Gem.

VIOL-1W. 25¢

Pure white; extra.

—Ilona.

VIOL-1L. 25¢

A fine wine-red.

—King Henry.

VIOL-1H. 25¢

Deep violet with a heavenly-blue center, bright eye.

—Lord Nelson.

VIOL-1N. 25¢

A large flowered violet-purple.

—Purple Bedder.

VIOL-1PB. 25¢

A new English variety.

—Scotch Strain.

VIOL-1SX. 25¢

Neatest and best hybrids, mixed colors.

—Scottish Yellow.

VIOL-1SY. 25¢

—Thuringia.

VIOL-1T. 25¢

Dark blue with white eye.

—Gem Varieties Mixed.

VIOL-1GX. 25¢

A compact growing strain.

—Blend of Above Varieties. VIOL-1X. 25¢

VIOLA LUTEA:

—Lutea splendens.

VIOL-1S. 25¢

Deep golden yellow. 1/2 Oz. \$2.80.

MARKET STRAIN: Small flowers; plants six inches high.

—papillo.

VIOL-1P. 25¢

Light blue with white spots.

ODORATA SEMPERFLORENS:

—odorata, The Czar.

VIOL-83Z. 25¢

Large fl'd blue. 1/2 Oz. \$2.00.

—Blue.

VIOL-83B. 25¢

Sweet Violet.

—Queen Charlotte.

VIOL-83C. 25¢

Large fl'd deep blue.

REGULAR SMALL FLOWERED TYPE:

VIOLA SPECIES: It is probable that we may be short on some of these as the supply of seed is very uncertain and at time of printing the crop is not known.

—adunca.

VIOL-2. 35¢

Very hardy woodland Violet; violet; 4".

- aetolica saxatilis.** VIOL-3. 35¢
Tiny and dainty; soft yellow fls; 2"; sun.
—**arenaria rosea.** VIOL-9. 35¢
(rupestris) Pale violet or white; 3"; HP.
—**bellidifolia.** VIOL-15. 35¢
Dwarf matted; violet or purple fls; 3".
—**Douglasii.** VIOL-34. 35¢
Orange-yellow, veined purple; gritty soil;
4"; Calif.
—**gracilis major.** VIOL-49. 35¢
Violet fls; 1 ft; Macedonia.
—**Jooi.** VIOL-68. 50¢
Very hardy; lilac-blue; S. E. Europe.
—**Hallii.** VIOL-53. 35¢
Upper petals dark violet; lower white; 4".
—**Langsdorffii.** VIOL-67. 60¢
To 8"; blue to white fls; collected in
Alaska; very nice.
—**nigra, Black Imp.** VIOL-79. 35¢
Quaint little Pansies; black velvet, small
eye.
—**papillonacea.** VIOL-90. 35¢
Canadian Violet. Bright blue fls.
—**parviflora.** VIOL-9. 30¢
—**Priceana.** VIOL-100. 50¢
Confederate V. Violet-blue; Ky-Ga.
—**purpurea.** VIOL-102. 35¢
Pink violet; Calif.
—**rotundifolia.** VIOL-110. 50¢
Bright yellow fls; 4"; Me-Ga.
—**saxatilis, Dawnside** VIOL-114D. 35¢
Johnny-Jump-Ups. This is an except-
ional strain and it is very popular; best
grown as an annual.
—**sempervirens.** VIOL-116. 35¢
(sarmentosa) Yellow fls; decumbent.
—**septentrionalis.** VIOL-118. 50¢
White, veined violet; 5"; HP.
—**yalcusimana.** VIOL-143. 50¢
Minute habit with tiny purple and white
Pansies; HP.
—**Mixed Species.** VIOL-SX. 30¢

VIRGILIA.

Leguminosae. Trees native of S. Af.
grown in the South.

- divaricata.** VIRG-8. 50¢
25 ft tr; rose-pink pea fls; scented shiny
lvs. Oz. \$3.50.
—**lutea** see **Cladrastis.**
—**oroboides.** VIRG-15. 40¢
40 ft. tr; pale pink pea-fls, slightly scented;
dull lvs. Oz. \$1.90.

VIRGINIA STOCKS: see **Malcomia.**

VITE.

(VY-teks)
Verbenaceae. Shs and trs; fls blue, red or
yellowish, in terminal spikes or panicles.

- Agnus-caste.** VITE-1. 30¢
Chaste Tree, Hemp Tree, Monk's Pepper
Tree. Oz. 50¢; lb. \$2.00.
—**alba.** VITE-1A. 30¢
Oz. 50¢; lb. \$2.40.
—**lucens.** VITE-6. 30¢
Pretty tree; pink fls followed by red
berries; glossy foliage; (X).
—**macrophylla.** VILE-8. 30¢
A broad leaf form of *Agnus-castus*.
—**trifolia v. simplicifolia.** VITE-16. 40¢
2 ft creeping shrub; sand dunes.
—**Mixed.** VITE-X. 25¢

VITIS.

(VI-tis)
—**Coincettiae.** VITI-26. 40¢
Very strong, heavily-foliaged vine.

VITTADINIA.

(vit-tah-DIN-ee-ah)
Compositae. Similar to *Erigeron* but native
of N. Z., Australia and S. Amer; thick
root-stocks; blue or white ray-fls and yellow

disks; perennial; (IX).

—**australis.**

Excellent for edging; free fl'ing; white
rays; HA; (triloba).....Oz. \$2.00.

VIRGINIA STOCKS: see **Malcomia.**

WACHENDORFIA.

Haemodoraceae. Tuberous rooted S. Af.
plants related to *Lachnanthes*; fls in panicles.
—**thyrsiflora.** WACH-1. 25¢
Yellow fls; 4 ft; damp places; S. Af.

WAHLENBERGIA.

(wahl-en-BUR-ji-ah)
Campanulaceae. Annual and perennials
similar to *Edrianthus*; culture same as for
Campanulas; small perennial species nice in
the rock garden.

—**albo-marginata.**

Erect blue or white bell-shaped fls; 8";
HP.

—**grandiflora:** see *Platycodon grandiflorum*.

—**pumilio:** see *Edrianthus pumilio*.

—**saxicola.** WAHL-28. 50¢

(W. tasmanica) Bule stars; bell-shaped;
1-4" high Tasmania.

WALLFLOWER: see *Cheiranthus cheiri*.

WASHINGTONIA.

(wah-shing-TOH-in-ah)
Palmaceae. (*Brahea*) Two large fan-palms
of Mexico; grown in Calif the Gulf Coast
and Florida.

—**filifera.**

Large Palm tree; (IX).

—**robusta.** WASH-2. 50¢

The most popular; fast growing; (sonor-
oe); (VIII); 100 seds \$4.00.

WATER CRESS: see *Nasturtium officinalis*.

WATSONIA.

(waht-SOH-ni-ah)
Iridaceae. Bulbs native of S. Af; culture
same as for *Gladialis* to which they are re-
lated; popular for summer flowers.

—**Beatrica.**

Rich apricot-red; 3 ft; Af. bulb; (IX).

—**Van Staveren's Strain** WAT-9V. 25¢

Evergreen foliage; 5 ft; many colors; (IX)

—**veriana.** WAT-19. 30¢

¼ Oz. \$1.50.

WEIGELA.

(wy-GEE-lah)

—**florida.** WEIG-9. 30¢

(rosea) Oz. 90¢; lb. \$12.00.

WEINMANNIA.

Cunoniaceae. Trees and shrubs from the
S. Hemisphere; ornamental; (V).

—**racemosa.**

Tree; 80 ft; small pink or white fls in 4"

racemes; (X); N. Z

WIGANDIA.

(wi-GAN-di-ah)
Tropical shrubby plants with bell-shaped
flowers; not hardy in North.

—**caracasana.**

Sub-shrub; 10 ft; pretty; (X). Oz. \$3.00.

—**urens.** WIGA-5. 25¢

Violet fls; leaves heart-shaped, 1 ft. long.

—**macrophylla.** WIGA-1M. 40¢

With good culture, leaves are 1½ ft wide
and 3 ft. long; tropical effect; blue fls; 13
ft; (IX).

WISTERIA.

(wis-TEE-ri-ah)
Leguminosae. Twining shrubs; very beau-
tiful vines; moist rich soil best; cut back the
growth in mid-summer for flowers next year.

- floribunda v. macrobotrys.** WIST-2M. 40¢
Japanese Wisteria. Racemes 3 ft long.
—**alba.** WIST-2A. 40¢
—**longissima.** WIST-2L. 40¢
Racemes to 4 ft long.
—**frutescens.** WIST-3. 30¢
Hardy in N; (IV). Oz. 50¢; lb. \$3.50.
PLANTS: Each \$1.75; postpaid.
—**sinensis.** WIST-9. 40¢
50 seeds to oz. Oz. 75¢; lb. \$4.00.
—**alba.** WIST-9A. 40¢

WOODFORDIA. (wood-FOR-de-ah)
—**fruticosa.** WOOF-1. 40¢
Small red fls; Indian tree of Crape Myrtle Family; (X).

WOODWARDIA. (wood-WAHR-di-ah)
—**virginica.** WOOD-6. 50¢
Virginia Chain Fern. Strong grower; 2-3 ft; moist shady places.
Plants: 50¢ each; 3, \$1.40. Prepaid.

WOODRUFF: see *Asperula odorata*.
WORMWOOD: see *Artemisia Absinthium*.

WRIGHTIA.
—**tincitoria.** WRIG-12. 40¢
Ivory ood. India. Oz. \$1.25.

WULFENDIA. (wool-FEE-ni-ah)
Low growing hardy perennials; grown in border; rich moist soil; some shade best.
—**carinthiaca.** WULF-1. 40¢
Hardy low perennial; blue tubular fls.
—**alba.** WULF-1F. 40¢

XANTHISMA. (zan-THIZ-mah)
Compositae. Annuals and perennials, native of Texas; solitary heads of yellow fls for ivy of Texas; solitary heads of yellow fls; good in border as well as for cutting.
—**texanum.** XANS-1. 30¢
Star of Texas. Heads 2" across; 4 ft; TA.

XANTHOCERAS. (zan-THOS-er-as)
They require good soil, a sunny place; its hardy in N; seed should be planted in fall or winter so as to freeze; seeds are large.
—**sorbifolia.** XANT-1. 40¢
Ornamental shrub; 15 ft; stratify seed best; (IV). 100 seeds \$2.00.

XERANTHEMUM. (zee-RAN-thee-um)
(zeer-ANTH-em-um) Immartelle. Compositae. Easily grown annual everlasting fls with solitary heads of disk flowers. They are good as cut flowers and very popular for dried flowers; sow seeds early in spring.
—**annuum, Mixed.** XERN-IDX. 20¢
Double flowers; 3 ft.
—**Purple.** XERN-IDP. 20¢
—**Rose.** XERN-IDR. 20¢
—**White.** XERN-IDW. 20¢
Any above: Oz. 60¢; lb. \$5.00.

XEROPHYLLUM. (zee-rah-FIL-um)
Liliaceae. Turkey-Beard. Nice perennial for the wild garden; fls in dense terminal racemes.
—**asphodeloides.** XERO-1. 35¢
Grass-like foliage; spikes 4 ft, topped by white stars; cuts well; best to sow fresh seed in mid-August, germinates in the following spring.
—**tenax.** XERO-5. 35¢
Flowers in 2 ft. racemes; 5 ft; (IX); wild garden.
—**rosea.** TUNI-2Z. 50¢

YUCCA

(YUK-ah) Adams Needle, Spanish Bayonet, Joshua Tree. Liliaceae. Suitable for bold effect in the border or for specimen plants on the lawn; easily grown from seed.

—**aloifolia.** YUCC-1. 25¢
Spanish Bayonet. (VIII). Oz. 60¢.
—**variegata.** YUCC-1V. 30¢
—**brevifolia.** YUCC-6. 25¢
Joshua Tree. 30 ft; (VIII).
—**constricta.** YUCC-7. 40¢
To 6 ft; Texas; white flowers.
—**elata.** YUCC-9. 35¢
(radiosa) To 20 ft; lvs 2½" wide; white margins; white fls; W. Texas. Oz. 85¢.
—**filamentosa:** see *Smalliana*.
—**glauca.** YUCC-14. 30¢
Small S. Bayonet. Leaves 3 ft; 6 ft; (IV). Oz. \$1.00
—**gloriosa.** YUCC-15. 25¢
Greenish white to reddish fls; lvs 2½ ft; fls to 8 ft; HHP. PLANTS: 75¢ ea; 3-\$1.85.
—**macrocarpa.** YUCC-19. 35¢
Grows to 20 ft; in W. Texas; lvs yellowish green with white incide. Oz. \$1.50.
—**mohavensis.** YUCC-20. 25¢
Mojave Yucca. Purple-white fls; 10 ft.
—**rupicola.** YUCC-24. 35¢
Twisted Leaf Y. Stemless; lvs 18" long; glaucous, yellow or brown margins; white fls; Txas. Oz. 90¢.
—**Smalliana.** YUCC-25. 25¢
Adams Needle. White fls; 12 ft; (IV).
—**Torreyi.** YUCC-28. 35¢
—**Mixed.** YUCC-X. 20¢

ZANTEDESCHIA. (zan-te-DES-ki-ah)
—**aethiopica.** ZAND-2. 30¢
Common Calla Lily. Oz. \$4.00.
—**Rohm von Ronsdorf.** ZAND-2R. 50¢
—**Godefreyana.** ZAND-2G. 25¢
Smaller and more profused bloomer.
—**Pearl of Stuttgart.** ZAND-2S. 50¢
Large flowered type.
—**Rehmannii.** ZAND-5. 25¢
Red Calla. Dwarf. Oz. 50¢.

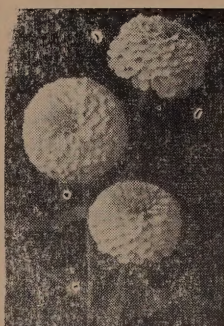
ZANTHOXYLUM. (zan-THOK-si-lum)
—**americanum.** ZANH-1. 35¢
c.s. Oz. 75¢; lb. \$4.00.
—**schinifolium.** ZANH-10. 35¢
(Fafara s.) Sh or small tr; greenish fls in cymes, 4" ac; China. Oz. 75¢.

ZEA: see under *Corn*.

ZELKOVA. (zel-KOH-vah)
Ulmaceae. Deciduous Elm-like trees and shrubs; hardy in the North.
—**carpinifolia.** ZELK-3. 35¢
(Z. crenata, Planera crenata) Caucasus; 80 ft.
—**serrata.** ZELK-6. 50¢
(Keakii) Oz. 90¢.

ZEPHYRANTHES. (zef-i-RAN-theez)
—**Andersonii:** see *Habranthus*.
—**candida.** ZEPH-8. 50¢
500 seeds \$4.00.
—**citrina.** ZEPH-10. 40¢
Bright yellow fls, 2" long; 1 ft; S. Amer.
—**grandiflora.** ZEPH-11. 50¢
(rosea)
—**sulphurea.** ZEPH-20. 50¢

ZIGADEMUS.
—**gramineus.** ZIG-1. 25¢
Nice for the wild garden; 1 ft; fls in racemes; (I); HP.



ZINNIA FLOWER TYPES

Scabious Flowered

Crown O'Gold

Lilliput Type

Howard's Giants

ZINGIBER.

—officialis.

Common Ginger. Rhizomes furnished. They can be sent only when ready.

(ZIN-jib-er)

ZING-3. \$1.00

ZINNIA

(ZINN-ee-uh) (Crasima) Compositae. A genus of some 10 species of which *Z. elegans* is our popular garden Zinnia; they are TA and may be started indoors for early flowering; a little pinching back will form better shaped plants; striking effect in the border or they can be used for cut flowers. when it will be best to grow them in the vegetable garden.

DAHILIA FLOWERED: The plants in this type are 2½-3 ft with large Dahlia-like blooms; they are especially good for beds.

—Attraction. ZIN-1A. 25¢

—Canary Bird. ZIN-1C. 20¢

Rich canary yellow color. ZIN-1S. 20¢

—Crimson Monarch. ZIN-1D. 20¢

Large showy deep crimson. ZIN-1E. 20¢

—Dream. ZIN-1N. 20¢

Most unusual rosy lavender. ZIN-1G. 20¢

—Exquisite. ZIN-1T. 20¢

Light rose with a deep rose center. ZIN-1L. 20¢

—Illumination. ZIN-1M. 20¢

Deep rose self; extra good. ZIN-1OZ. 25¢

—Golden Dawn. ZIN-1K. 20¢

Rich golden yellow. ZIN-1W. 20¢

—Golden States. ZIN-1R. 20¢

A beautiful golden yellow. ZIN-1SF. 25¢

—Luminosa. ZIN-1WR. 20¢

A large luminous bright pink. ZIN-1X. 20¢

—Meteor. ZIN-1X. 20¢

A rich red, the darkest of the reds. ZIN-1X. 20¢

—Old Rose. ZIN-1X. 20¢

—Oricle. ZIN-1X. 20¢

A very popular orange. ZIN-1X. 20¢

—Polar Bear. ZIN-1X. 20¢

Large creamy white. ZIN-1X. 20¢

—Royal Purple. ZIN-1X. 20¢

Best of the rich purples. ZIN-1X. 20¢

—Scarlet Flame. ZIN-1X. 20¢

—Will Rogers. ZIN-1X. 20¢

Lovely brilliant scarlet-red. ZIN-1X. 20¢

—Mixed Dahlia-flowered. ZIN-1X. 20¢

Any above: Oz. 90¢; lb. \$7.00.

GIANTS OF CALIFORNIA: Plants are 3-4

high and the flowers are large flat heads

on long stems; they are excellent for cut

flowers as well as for bedding.

—Brightness. ZIN-2B. 20¢

A nice bright pink. ZIN-2R. 20¢

—Cherry Queen. ZIN-2E. 20¢

Brilliant cherr-red; showy. ZIN-2P. 20¢

—Crimson Queen. ZIN-2G. 20¢

Deep crimson. ZIN-2L. 20¢

—Golden Queen. ZIN-2M. 20¢

A real rich golden yellow. ZIN-2K. 20¢

—Grenadier. ZIN-2R. 20¢

A rich dark red. ZIN-2X. 20¢

—Lavender Queen. ZIN-2X. 20¢

Deep rosy lavender. ZIN-2X. 20¢

—Miss Willmott. ZIN-2X. 20¢

Large soft rich pink. ZIN-2X. 20¢

—Orange King. ZIN-2X. 20¢

—Orange Queen. ZIN-2X. 20¢

Deep golden orange. ZIN-2X. 20¢

Glowing deep scarlet. ZIN-2X. 20¢

—Mixed Giants of California ZIN-2X. 20¢

Any above: Oz. 90¢; lb. \$7.00.

FANTASY TYPE: Petals are long, curved

and pointed, resembling those of the night

flowering Cactus; 4" across and 2" deep.

plants 2½-3 ft.

—Gold Dust. ZIN-3G. 20¢

Pretty golden orange.. ZIN-3M. 20¢

—Melody. ZIN-3L. 20¢

Orchid-lavender. ZIN-3L. 20¢

—Orange Lady. ZIN-3SD. 20¢

Bright deep orange. ZIN-3WL. 20¢

—Star Dust. ZIN-3X. 20¢

Beautiful canary yellow. ZIN-3WL. 20¢

—White Light. ZIN-3X. 20¢

Best pure white. ZIN-3X. 20¢

—Fantasy Mixed. ZIN-3X. 20¢

Very attractive and graceful; medium

sized fls with shaggy ray-like petals. Oz.

90¢; lb. \$8.00.

HARMONY or SCABIOUS TYPE: Plants

2½-3 ft, bearing numerous medium sized

flowers resembling annual Scabiosa or Har-

mony Marigold. They have long stems

and make excellent cut flowers.

—Finest Mixed. ZIN-4X. 20¢

Oz. 90¢.

PUMILA TYPE: Dwarf double or Cut-

and-Come-Again. Comes in the best pas-

tel shades; 2-3 inches across, round in

shape and on good lenght stems for cutting.

blooming in 50 days.

- Sunshine Tints.** ZIN-6T. 20¢
A rich blend in pastel colors.
—**carnea.** ZIN-6C. 25¢
—**kermesina.** ZIN-6K. 225¢
—**rosea.** ZIN-6Z. 25¢
—**salmon.** ZIN-6M. 25¢
—**White.** 6 ZIN-6W. 25¢
—**Yellow.** ZIN-6Y. 25¢
Above: Oz. 80¢; 4 oz. \$3.00.



FANTASY ZINNIAS

PEPPERMINT STICK: A new medium sized Pumila-type flowered Zinnia with the petals striped in various color combinations such as red and white; red and yellow; purple and white; carmine and white; and orange and yellow; about 70% striped flowers.

- Best Mixed** ZIN-7X. 20¢
Oz. \$1.30.

SUPER GIANT HYBRIDS: Extremely large flowered type.

- Floradale Scarlet.** ZIN-8F. 25¢
A uniform scarlet, Cactus type blooms; slightly smaller than Dahlia-flowered; 2-2½ ft; blooms 5-6 inches across. Oz. \$1.30.

—**Burpee Giant Hybrids.** ZIN-8B. 25¢
This is a comparatively new class of type. Sturdy; blooms 65-inches across and

- BLAZE.** ZIN-8Z. 25¢

A new color in the Cactus flowered type; bursts into bloom with a profusion of brilliant mandarin-red flowers and, as the flowers attain size, change to an exciting fiery orange-scarlet. Oz. \$1.70.

in a full color range without a harsh color. Oz. \$1.75.

- Riverside Beauty.** ZIN-8R. 25¢
A new Cactus-type Zinnia with flowers 5-6 inches across; a warm luminous azalea-pink. Oz. \$1.75.

—**Burpee Super Giants Mixed.** ZIN-8S. 25¢
An improved type; extra large blooms, 5-6 inches across of the California Giant type; colors tend toward pastel shades. Oz. \$1.75.

- Sunny Boy.** ZIN-8M. 25¢
Rich buttercup-yellow. ½ Oz. 80¢.
—**Eskimo.** ZIN-8E. 25¢
Beautiful creamy white. ½ Oz. 80¢.

EARLY WONDER TYPE: Earliest of all Zinnias and especially good for short season sections. Plants 18-24", basal branching with many 3-4 inch flowers on long wiry stems having no laterals and almost no leaves.

- Fandango.** ZIN-9F. 20¢
Salmon-cerice-pink.
—**Fiesia.** ZIN-9E. 25¢
The darkest red.
—**Gypsy.** ZIN-9G. 25¢
Shades of deep orange.
—**Padre.** ZIN-9P. 25¢
Bright scarlet.
—**Rose-pink.** ZIN-9RP. 25¢
—**Mixed.** ZIN-9X. 20¢
Above: Oz. \$1.30; 1b. \$9.00.

LILLIPUT or POM POM TYPE: The Lilliputs are among the most popular Zinnias for cut flowers; the blooms are small, compact, symmetrical and on strong plants, 20" high.

- Black Ruby.** ZIN-10B. 20¢
Blackish red flowers.
—**Canary Gem.** ZIN-10C. 20¢
Clear canary yellow.
—**Crimson Gem.** ZIN-10R. 20¢
—**Dainty Gem.** ZIN-10D. 20¢
A dainty bicolor rose.
—**Golden Gem.** ZIN-10GG. 20¢
Golden orange.
—**Lilac Gem.** ZIN-10L. 25¢
—**Purple Gem.** ZIN-10PG. 20¢
—**Rosebud.** ZIN-10R. 25¢
Lovely soft rose.
—**Salmon Gem.** ZIN-10SM. 20¢
—**Scarlet Gem.** ZIN-10. 20¢
—**Scarlet Gem.** ZIN-10SG. 20¢
—**White Gem.** ZIN-10WG. 25¢
—**Valencia.** ZIN-10V. 20¢
—**Mixed.** ZIN-10X. 20¢
Any above: Oz. 90¢; 1b. \$7.50.

CUPID ZINNIAS: Dwarf compact little plants bearing quantities of button-like flowers smaller than the Lilliput type; for edging or pots.

- Goblin.** ZIN-11G. 20¢
Burnt orange; an unusual color.

ZINNIA SPECIES:

- gracillima.** ZIN-13G. 20¢
Miniature deep scarlet flowers; 18-24".
—**Red Riding Hood.** ZIN-13R. 20¢
Brilliant red fls; very showy. Oz. 80¢.
—**linearis.** ZIN-14. 20¢
Single, orange striped petals; lasts well when cut; 10 inches high.



ZINNIA — LINEARIS

- Haageana.** ZIN-15. 20¢
Zinniettes. Small double fls varied and variegated; wide color combinations; nice in an old-fashioned garden and miniature bouquets. Oz. \$1.60.
—**Persian Carpet.** ZIN-15P. 30¢
A brilliant mixture of 1¼" fully double

Haageana type flowers on 12" compact plants; the flowers are variegated and usually bicolor combinations, ranging from yellow to deep orange. This miniature Zinnia is ideal for border or bedding, producing a multitude of flowers suitable for small table bouquets. Oz. \$2.00.

—**signata, LULA.** ZIN-16L. 35¢

The first lemon-yellow in this species; extra good plant for bedding or edging; compact domed-shaped plants, covered all summer with flowers and way into the autumn; 1 ft; HHA.

—**Single.** ZIN-15S. 25¢
—**Double Perfection.** ZIN-15DP. 30¢

Hybrid. ½ Oz. 90¢; Oz. \$3.00.
—**marginata.** ZIN-15M. 25¢
Single brown-red with golden yellow edges. ¼ oz. 60¢.

ZIZIPHUS.
—**Jujuba.** ZIZI-1. 30¢
Varieties mixed; (vulgaris). c.s. Oz. 75¢;
lb. \$3.50.

ZOYSIA. (SOH-i-si-ah)
Gramineae. Perennial creeping grasses with fine foliage; planted for lawns and golf courses in the South.
in quantity please write for latest prices.

ZYGADENUS: see **Native Pina List.**
—**japonica.** ZOYS-2. 50¢
Korean Lawn Grass. Lb. \$2.00. If wanted

FLOWER SEED MIXTURES

Mixtures of any seed is prohibited entry from one country to another, as a rule.

This does not apply to mixtures of one genus unless the genus, itself is prohibited.

HONEY BEE MIXTURE. MIX-14. 25¢

Contains several flowers especially liked by the bees; seed can be planted in rows in the garden or broadcast early in the spring in places where the seed can germinate. Oz. 50¢; Lb. \$2.00.

GENERAL FLOWER MIXTURE.

MIX-8. Pkt. 20¢; Oz. 40¢; lb. \$2.50.

This contains over 1,000 different varieties and species of seed. The bulk of which are hardy in the corn belt; the mixture can be used for general planting most any where in the U.S. Suggest broadcasting in March or April and later start the seed more carefully.

CUT FLOWER BLEND.

MIX-1. Pkt. 20¢; Oz. 60¢.

This contains many different kinds of seeds suitable for cut flowers. They are hardy annuals as a rule and it would be best to plant them in rows, some in April and then another planting in May.

CUT-FLOWER MIXTURE. MIX-7. 25¢

This is a special mixture of both hardy and half hardy annuals which if planted in rows in the garden will produce excellent flowers for cutting; make plantings every week during April and May for continuous bloom. Oz. 50¢; lb. \$3.00.

CALIFORNIA NATIVE FLOWERS.

MIX-13. 25¢; Oz. 50¢.

An exceptional mixture of true California native flowers. Carefully selected to make the most colorful as well as most interesting display. Oz. \$1.20; ¼ lb. \$2.25. pecially useful in the South.

HARDY BORDER BLEND.

MIX-5. Pkt. 25¢; ½ Oz. 90¢.

This is made up of hardy perennials growing from 1 to 6 feet in height. All will make nice specimen plants for the

hardy border. Sow the seed any time between January and August, starting the early sowing indoors.

HOUSE PLANT BLEND. MIX-6. PKT. 40¢

The seeds in this mixture are all tender subjects and grown indoors. The seeds of this blend are all costly items and care should be used in planting them. This is an ideal collection for the shut-in. Try

EVERGREEN TREE MIXTURE.

MIX-5C. 30¢; Oz. 50¢. This a mixture of evergreens for the northern part of the country; plant in shaded beds to remain 2 years.

ANNUAL CLIMBING VINES.

MIX-15: Pkt. 20¢; ½ Oz. 40¢

This collection is of interest to children as the seeds are mainly large and the vines very noticeable when growing. It would be best to plant them where they are to grow and here in Michigan when frosts may occur late in May, the seed would be best planted the first of May and towards the end of the month more seed can be planted between the others in case of frost damage.

ROCK GARDEN PERENNIAL BLEND.

MIX-3. Pkt. 25¢; ¼ Oz. 80¢.

This is a real collection for the Rock Gardener; contains a great many species all suitable for the Rock Garden. They can be sown any time between January and August just so they get a start by freezing weather. The early planting, of course, should be made indoors.

AUSTRALIAN-NEW ZEALAND SEEDS.

MIX-4. Pkt. 20¢; Oz. 80¢.

We list a great many seeds from both Australia and New Zealand and this blend contains seeds of all of them. Keep in mind that most of these will not stand a great deal of frost and thus would be esgerminating them the 'casserole method'.

GREENHOUSE BLEND. MIX-12. 75¢

A blend of many kinds of choice flowers

suitable for greenhouse growing; sow thinly in a sandy soil and cover container; water from below.

HARDY TREE MIXTURE. MIX-5. 30¢

A general mixture of the trees listed and hardy in zone IV and V. Plant so as to have at least one winter to germinate.

ROCK GARDEN ANNUALS. MIX-2A. 25¢

A carefully proportioned blend of many different flowers of low growing sorts best

adapted for the rock garden; sow early and for mass effect. **Oz. \$2.00.**

TROPICAL SEED BLEND.

MIX-9. Pkt. 20¢; Oz. 90¢.

These seeds are all of tropical origin and suitable for the far South for outdoor growing or in the North for indoor plants. They, as a rule, require a warm damp place to germinate and usually bottom heat is very important.

NATIVE WILD FLOWER PLANTS

The following hardy herbaceous perennial plants can be supplied in the spring or fall. The prices quoted are postpaid and no orders for less than \$3.00 can be handled at the prices quoted. Write for prices where more than one of a kind is wanted.

Spring delivery usually from March -st. to May 15th. Fall delivery starts in August and into December. Winter delivery can be made in most cases, if desired.

ADD 35¢ TO EACH ORDER — POSTAGE

HARDY HERBACEOUS PERENNIALS

POSTPAID. PRICE EACH.

(For descriptions see regular catalog.)

ADD 35¢ TO EACH ORDER — POSTAGE

ACONITUM reclinatum 40

—uncinatum 50

ACTAEA alba 50

—rubra 45

ALLIUM tricocum. Wood Leek..... 35

ANGELICA Curtisii 50

Angelica Curtisii. 50¢

White fls; Aug-Sept; sub-tropical effect; (V). 3 plants for \$1.25.

ARALIA racemosa. 50

ARUNCUS sylvest. Goat's Beard 50

ASARUM canadensis. 45

—shuttleworthi. 50

ASTILBE biternata. 50

BAPTISIA australis. 60

—tinctoria. Yellow Wild Indigo 45

CAREX fraseri. 50

CAULOPHYLLUM thalictroides 45

CIMICIFUGA americana 45

—racemosa. Cohosh Bugbane 45

COLLINSONIA canadensis 45

FRAGARIA virginiana 45

Wild Scarlet Strawberry. Does well in dry places; fruits good.

DISPORUM lanuginosum. Fairybells 45

EPILOBIUM angustifolium 45

EUPATORIUM urticaefolium 50

GERANIUM maculatum 45

GILLENIA trilobata. Bowmansroot..... 40

HOUSTONIA purpurea 45

HYDRASTIS canadensis. Goldenseal ... 50

—Large sized roots..... 50

—Large size roots 10-\$2.75..... 50

LIATRIS pycnostachya. Cattail Gay F.... 40

—scariosa. Lge. Button Snakeroot..... 45

—spicata. Spike Gayfeather 45

MELANTHIUM virginicum 45

MITELLA diphylla. Bishop'S Cap..... 45

PANAX quinquefolium. Am. Ginseng... 50

—2nd sized roots. 30

—Largest roots 85

PEDICULARIS canadensis. 40

PODOPHYLLUM peltatum..... 35

POLYGONATUM biflorum..... 35

SAPONARIA officinalis. B. Bet..... 35

SMILACINA racemosa..... 35

SOLIDAGO canadensis. 40

—odora. 45

STENANTHIUM robustum. 50

STREPTOPUS roseus..... 40

THERMOPSIS caroliniana 50

TIARELLA cordifolia. Foamflower..... 40

TRADESCANTIA virginiana 50

VERONICA virginica..... 40

VIOLA blanda. Sweet White Violet..... 35

—cucullata. Blue Marsh Violet..... 35

—hastata. Halberd-leaved..... 35

—rotundifolia. Yellow Roundleaf V..... 35

—sagittata. Arrowleaf Violet..... 35

YUCCA gloriosa. (patens) 60

ZAGADENUS muscaetoxicum. 50

Crow Poison. Deciduous; 1-2 ft; grass-like lvs; white fls in June; shade or part. 3 plants for \$1.25.

Small plant orders can not be profitably filled under present costs; try to make your order total a couple dollars if you can.

BOG PLANTS

ADD 25¢ TO EACH ORDER — POSTAGE

DELIVERY: Only during Spring and Fall months. Prices quoted are postpaid BUT be sure to add 25¢ to each order in addition to the price quoted below.

ACORUS calamus. 60

ASTER puniceus. Swamp Aster..... 35

—novae-angliae. 45

Arundinaria tecta. 85

Small Cane. Grows in moist upland soils; May-July. 3 plants \$3.25.

CALTHA palustris. Marsh Marigold..... 40

CHELONE glabra. White Turtlehead..... 45

—lyonii. Pink Turtlehead. 45

CICUTA maculata. Water Hemlock 40

CORNUS canadensis. Bunchberry..... 75



HARDY NATIVE FERNS FOR

DIPHYLLEIA cymosa. Umbrella-leaf....	.40
EUPATORIUM purpureum. Joe-Pye-W.....	.45
HELENIUM autumnale	.45
HEMEROCALLIS fluva.	.40
IRIS pseudacorus. Yellow Flag.....	.40
—versicolor. Blue Flag	.40
LOBELIA cardinalis. Cardinal Fl.....	.40¢
—syphilitica.....	.40
MERTENSIA virginica. Va. Bluebells....	.35
MONARDA didyma. Owwego Beebalm.....	.45
PHYLLOSTACHYS aurea. Golden Japanese Bamboo.....	1.35
SARRACENIA flava. Pitcher-plant.....	.85
—purpurea.	.95
—rubra. Sweet F.....	.90
SAXIFRAGA virginensis	.40
SYMPLOCARPUS foetidus.	.75
TYPPHA latifolia. Common Cattail.....	.40
VACCINIUM macrocarpon.	.40
VERATRUM viride. False Hellebore.....	.55
VERNONIA noveboracensis. Ironweed	.45

THOSE SHADY PLACES.

DICKSONIA punctilobula. Hay-scented F. Shade or open situations.....	.40
DRYOPTERIS filix-mas. Male F.....	.40
—marginialis. Leather Woodfern.....	.40
—spinulosa. Toothed Woodfern.....	.45
—theiypieris. Marsh Fern.....	.40
LYGODIUM palmatum. Climbing F.....	.55
ONOCLEA senibilis. Sensitive F.....	.50
OSMUNDA cinnamomea. Cinnamon F.....	.45
—claytoniana. Interrupted F.....	.45
—regalis. Royal Fern.....	.50
PELLAEA atropurpurea. Cliff Brake.....	.55
POLYPODIUM vulgare. C. Polypody....	.45
POLYSTICHUM acrostichoides. Christmas Fern. Used by florists.....	.50
PTERETIS nodulosa. Ostrich Fern.....	.45
PTERIDIUM aquilinum. Bracken.....	.45
WOODWARDIA virginica. V. Chain F....	.40

100 NATIVE FERNS

Strong roots. Shade or partial shade;
our selection. **ONLY \$23.00, postpaid.**

NATIVE FERNS

ADD 25¢ ON EACH ORDER—POSTAGE.
DELIVERY ON THE PLANTS LISTED
HERE CAN BE MADE IN THE FALL OR
SPRING — THERE ARE MANY MORE
NATIVE PLANTS AVAILABLE.

POSTPAID. PRICE EACH.

ADIANTUM pedatum. Maidenhair.....	.40
ASPLENIUM platyneuron. Ebony S.....	.50
—trichomanes. Maidenhair.....	.45
ATHYRIUM filixfemina. Lady F.....	.45
BOTRYCHIUM virginianum. Rattlesnake Fern.....	.40
CAMPTOSORUS rhizophyllus. Walking F Good in dry shaded rock.....	.50
CYSTOPTERIS bulbifera.. Good RG....	.40

HARDY ORCHIDS

ADD 35¢ TO EACH ORDER—POSTAGE
POSTPAID. PRICE EACH.

ALETRIS farinosa.	.55¢
APLECTRUM hyemale. Puttyroot.....	.50
Puttyroot. Greenish brown fls; 1 ft; rich loam; partial shade; evergreen.	
CALOPOGON pulcaellus. Grass-pink O.....	.50
Grass-Pink Orchid. Grass-like foliage and showy pink fls in early summer; bog or water garden; sun or semi shade; 12"- 18".	
CYPRIPEDIUM acaule. Pink Lady S.....	.50
Pink Ladyslipper. Large bright purple pink fls in early spring; 6-15 inches; our most beautiful hardy Orchid; (II).	

— <i>parviflorum</i> . Yellow Lady S.....	\$1.00
— <i>pubescens</i> . Yellow Ladyslipper. Large bright yellow fls in May and June; 1-2 ft; rich soil.	\$1.00
— <i>spectabile</i> . Showy Lady S.....	\$1.50
Showy Ladyslipper. White to rose colored fls in June and July; 1-2 ft; shade; rich peaty soil; very pretty; (II).	

HABENARIA <i>psycodes</i> . Sm. Purple O .85	
— <i>ciliaris</i> . Yellow Fringed Orchid. Orange or yellow fls with fringed petals; July-August; sandy soil; part shade.	\$1.50
— <i>psycodes</i> . Purple Orchid.....	\$1.00
Small Purple Orchid. Purple fragrant fls; shade; 1-2 ft.	

ORCHIS <i>spectabilis</i> . Showy Orchid.....	.55
Showy Orchid. Violet-purple fls mixed with a lighter purple and white; May-June; shade; 6-12 inches.	

100 NATIVE ORCHIDS: Assorted (our selection) all flowering sized plants for part shade or shade for \$25.00, postpaid.

ADD 25¢ TO EACH ORDER—POSTAGE

ROCK GARDEN

ADD 35¢ TO EACH ORDER—POSTAGE

AQUILEGIA <i>canadensis</i>	.45
ARISAEMA <i>triphellum</i> . J-in-Pulpit.....	.40
ASCLEPIAS <i>tuberosa</i>	.50
CAMPANULA <i>divaricata</i>	.40
CHAMAEIRIUM <i>luteum</i>	.40
CLINTONIA <i>borealis</i> . Bluebead	.50
— <i>umbellulata</i>	.35
CONVALLARIA <i>majalis</i> . L-of-Valley.....	.40
DICENTRA <i>canadensis</i>	.35
— <i>cucullaria</i> . Dutchman's Breeches.....	.35
— <i>eximia</i> . Bleeding Heart.....	.70
DODECATHEON <i>meadia</i>	.45
ERYTHRONIUM <i>americanum</i>	.40
EUPHORBIA <i>corollata</i>	.35
GENTIANA <i>andrewsii</i>	.40
HEPATICAC <i>acutiloba</i>	.45
— <i>triloba</i>	.45
HEUCHERA <i>villosa</i> . H. Alumroot.....	.40
— <i>americana</i>	.40
PHLOX <i>divaricata</i> . Blue P.....	.40
POLYGALA <i>senega</i> . S. Snakeroot.....	.35
POLYGONATUM <i>commutatum</i>	.45
SANGUINARIA <i>canadensis</i> . Bloodroot.....	.40
SAXIFRAGA <i>michauchii</i>	.45
SILENE <i>virginica</i> . Firepink.....	.40
SISYRINCHIUM <i>angustifolium</i>	.40
STOKESIA <i>levis</i>	.45
THALICTRUM <i>dioicum</i>	.50
COREOPSIS <i>lanceolata</i>	.40
TRILLIUM <i>cernuum</i>	.35
— <i>erectum</i> . Purple Trillium.....	.45
— <i>album</i> . Wax Trillium.....	.30
— <i>grandiflorum</i> . Snow Trillium.....	.45
— <i>luteum</i> . Yellow Trillium.....	.40
— <i>sessile</i> . Toad Trillium.....	.30
— <i>stylosum</i> . Rose Trillium.....	.45
— <i>undulatum</i> . Painted Trillium.....	.45

TRILLIUM SPECIAL

FIVE each above 8 species, 40 roots for only \$10.00, postpaid.

UVULARIA <i>grandiflora</i> . Merrybells.....	.40
— <i>perfolata</i>	.35
— <i>sessilifolia</i>	.35
— <i>canadensis</i>	.40
— <i>pedata</i> . Bird'sfoot Violet.....	.35
— <i>bicolor</i>	.40
YUCCA <i>filamentosa</i>	.75
— <i>gloriosa</i> . Moundlily Yucca.....	.80
ZYGADENUS <i>muscaetoxicum</i>	.35
XEROPHYLLUM <i>asphodeloides</i>	.50

HARDY VINES

AMPELOPSIS <i>quinquefolia</i>	.40
Virginia Creeper. Clings to walls; 25-75 ft; sun or part shade.	
BIGNONIA <i>radicans</i>	.50
Trumpet Creeper. 10-30 ft; fls trumpet-shaped, bright orange to vivid scarlet.	
CELASTRUS <i>scandens</i>	.50¢
American Bittersweet. 10-25 ft; woody twiner; attractive orange-colored berries.	
CLEMATIS <i>crispa</i>	.55
Curly Clematis. 3-6 ft; purple nodding fls; sun or shade.	
— <i>texensis</i>	.80
Scarlet Clematis. 4-8 ft; scarlet pitcher-shaped fls; very desirable.	
— <i>virginiana</i>	.50
Virgin's Bower. 10-30 ft; graceful; fls in whitish clusters; sun or shade.	
DIOSCOREA <i>villosa</i>	.45
Yam. 4-8 ft; pale greenish yellow fls in late summer; shade or part; lvs turn yellow in autumn.	
EPIGAEA <i>repens</i>	.70
Trailing Arbutus. Ground cover; 4-12"; lvs rounded heart-shaped- evergreen; rich soil; shade.	
GALAX <i>aphylla</i>	.40
Evergreen ground cover; 4-12 inches; sun or part shade; lvs bronze bronze.	
GAULHERIA <i>procumbens</i>	.40
Wintergreen. Ground cover; 3-6 inches; lvs shining; bright red edible berry; shade or part shade.	
HOUSTONIA <i>serpyllifolia</i>	.45
Creeping Bluet. 4-6 inches; deciduous; border or RG; sun or part shade.	
IRIS <i>cristata</i>	.50
Crested Iris. Makes good ground cover; fls blue with orange; pretty; bst moved in May.	
IRIS <i>verna</i>	.45
Vernal Iris. 4-6 inches; violet-blue fls with yellow center; shade or part shade.	
MITCHELLA <i>repens</i>	.50
Partridge Berry. Ground cover; 3-6 in; bright red berries; shade or part.	
NEPETA <i>hederacea</i>	.40
Ground Ivy. Small, low thick growing plants with light blue fls in spring; good RG cover in moist shady places. 10 plants \$3.00.	
PACHYSANDRA <i>terminalis</i>	.50
Japanese P. Evergreen ground cover; 6-9 inches; nice along walks and drives; shade; white terminal fls in spring.	

CULTURAL DIRECTIONS

In using the following cultural directions, judgement must be used; one can not even give exact directions for a species for many things enter into each grower's work. I will make corrections and additions in each issue following and I invite my reader's suggestions as a great many will have valuable information.

Light or darkness for the germinating seed is of considerable importance in many species. Temperature is another important matter; the letter **W** means 60 degrees F. or above while **C** means 50 degrees. In special cases mention will be made in the text. **L** means the seed should not be shaded or covered with paper; **D** means to keep seed pans in a dark part of the room or cover with paper, etc. Thus **LC**, **DC**, **LW** and **DW** will be used. **FG** means germination will be best if the (moist) seed is subjected to a freezing temperature for a short period; thawing and freezing.

1. Plant direct to open ground about the middle of April; sow thinly; keep moist cover lightly and press soil lightly.

2. Sow direct to garden, April-May or Sept; not too thick; thin.

3. Sow in pans or pots, indoors, during April; warm, dry locations; rich soil; best sheltered from rains; do not wet leaves.

4. Start indoors in 4" pots in April or out side in late May; soak seeds in warm water for 24 hours; warm sunny places.

6. 5-8 seeds can be planted in 3" or 4" pots and place in an airy cold frame; do not water too much; also sow direct to permanent location during late March; keep flowers picked to prevent seed forming.

7. Sow in warm bed or indoors in March or April and after thinning or transplanting once, set out doors in late May; or they can be planted direct to garden in April or May.

8. Start in pots indoors or frost proof frame, during March-April transplanting to garden in late May.

9. Start indoors in February-March in warm place and transplant to pots; set outdoors after danger of frost has passed.

10. Sow January-April, indoors in cool place; transplant two times and set out doors middle of May; can be started in August-September and carried over in cold frame for bloom in May.

11. Start indoors in warm place; cover lightly; plenty air; water carefully; transplant to the open ground in late May; can be planted to open ground in late April.

12. Start during January or February in a warm place; rich soil; water carefully and thin; transplant out doors after danger of frost has passed.

13. Start seeds as early as December and up into March; careful in watering; transplant to flats and later to pots, setting to garden early May; pinch side buds for large flowers; plants lifted before frost

can be grown on indoors for winter bloom.

14. Start during January in pots of a sandy soil containing leaf mould; cover with glass and water regularly; keep above 60 degrees F; germinates in 10 days when they should be kept cooler; transplant 1" apart in 1/2 leaf mould and rich compost; regular soil mixture should be equal parts good compost, leaf mould and good sod to which some sand, peat can be added; repot not later than first of Sept; prefers light places, sheltered from weather.

15. Plant in May in cold frame; transplant outside 6" apart and repot during Sept. in a rich soil; do not over-water during winter; keep in frost-free frame during winter.

16. Start in cold frame during April or during August in cold frame and winter over for bloom in May.

17. Start during February or March in seed pans, indoors; cover lightly and water from below; transplant to flats and eventually to pots and harden-off by frequent airing; transplant out doors after danger of frost has passed.

18. Start first of April in sandy leaf mould and compost soil; water carefully; pot when ready; light shade; these plants will not stand any frost.

19. Sow seed late in Sept. or early Oct. in pans, in cold frame; thin and pot; grow close to glass; they make pretty plants for Mother's Day sales.

21. Start in March-April, indoors or plant out doors in April-May; cover 1"; press seed down firmly and cover well.

22. Start January-April in a rich fibrous, sandy soil; water carefully; keep warm; thin and eventually pot.

23. Start from May-August in flats or pans; as these vary much in germination taking as much as a month or so; keep moist; half shade will help; when seedlings have developed transplant to flats and to pots, if wanted; if strong enough they can be set out in their permanent location.

24. These require freezing; seed should be moist; sow in late fall or during winter or if in container, set outside; protect from mice; seeds in containers can be taken indoors in early spring, where they will germinate if given a warm place; transplant them early.

25. These are to be started according to time of bloom wanted which usually takes 4-5 months; sow October-January in a warm house in light compost; grow seedlings close to glass; pot in a rich compost; double blooms usually from the strong seedlings while singles come from the weak ones.

26. Soak seeds in warm water for 24 hours; start from January to August; seed can be planted in pots; soil, leaf mould, rotted manure, peat moss and sand; cover seed pans with glass and shade some;

germination 6-8 weeks; transplant to larger pots as growth progresses; final soil, equal parts well rotted manure, compost and leaf mould; prune terminal bud start of second year to form side shoots; blooms third year; tie to stakes; winter in light, warm house.

27. Do not sow before last of April in a warm house; thin and pot; transplant to outside when frost danger has passed; remove flowers when they start to fade; Early Wonder varieties can be started in March.

29. If started in May or June flowers will be had same season; transplant and when well rooted, they can be set out in the open; seed sown in September or even August will make good rooted plants by time of frost.

30. Start in March in warm house; transplant and carry over the summer months in cold frame; bulbs will have formed by fall; dry and winter in frost-free cellar; set out in May.

31. Wet soil well a day before sowing the seed; some milled sphagnum is good in soil mixture; strat during June or August; keep moist; transplant and give plenty of air to seedlings; set outside in Sept.

32. Sow fresh seed or during December-January in seed bed; cover with pine boughs and expose to winter weather; germination takes place during February and March or when it thaws; when growing in the greenhouse place close to the glass.

33. Usually sown from Nov. to March; use a soil mixture of leaf mould; peat moss and sand; do not cover; best to germinate in pans, covered with glass; transplant when seedlings are strong enough and later on repot; give air and less shade as they develop; do not grow in dry atmosphere.

34. Start any time of year in half shaded warm house; rich humus soil with sand; keep fairly wet transplant to flats when second leaf forms and hold till spring without too much root disturbance; in spring when growth starts pot in standard pots; bloom third year.

35. Sow seeds on sphagnum moss; keep shaded and warm; pot in well drained soil on acid side; keep damp, warm and shaded.

36. Sow seeds immediately upon arrival in a light sandy soil; warm and fairly moist; transplant to a richer soil and later to pots; keep shaded at all times.

37. Soak seeds in warm water for 48 hours; plant from February to September; place seeds about 1" apart in flats and $\frac{3}{4}$ " deep in good soil containing third sand; cover soil with sphagnum moss; germination in 4-6 weeks; keep warm at first, later on a little cooler.

38. Start seed from January to April; sandy peaty soil; warm and damp; make later sowings for succession crop; keep shaded, warm and moist; pot when well established; then keep in light part of warm house.

41. Start last of March in warm house in flats or pans; keep warm; transplant to pots last of May in a loamy, sandy soil.

43. Sow during winter in greenhouse;

transplant in early spring to cold frame; later on into pots of rich loamy soil; can be transplanted out doors but must be moved in doors before frost; can also be transplanted to greenhouse beds for winter flowers.

45. The seed considered here have hard shells and it is necessary to either soak them in warm water for 24-48 hours or in some, file a notch in the shell; use a sandy soil to germinate in and keep warm and damp; when seedlings are strong enough, pot singly into pots; keep warm.

47. Plant seeds on receipt; keep damp and shaded; transplant to flats and later to pots using an acid soil with leaf mould and shape sand and well rotted cow manure; keep warm and well ventilated.

48. Start in February in warm house in flats of sandy lime-free soil; transplant seedlings promptly into pots which should be sunk into sand; they can be placed out doors during summer but protect from the rains.

49. Sow immediately after harvest in cold frame or flats; cover seed lightly with sand; germination in 4-5 weeks; do not disturb seedlings the first year; transplant to pots the second year.

51. Start in January or February in warm house or in pots or flats; good drainage; lime-free soil and leaf mould with some sand; cover with glass and keep fairly damp; seeds germinate very unevenly.

53. Start July-September in pans or flats in soil containing plenty of sand; do not cover seed with soil but cover with paper and keep moist from bottom; pot up when strong enough and winter over in cold house; little water during the winter.

54. Sow seeds March to August in pots or pans containing peat moss and sand with good leaf mould; cover with glass and paper on top; air when germinated and transplant to pots when strong enough; soil mixture equal parts leaf mould, compost and well rotted cow manure, to which should be added some peat moss and sand; keep in light and warm place; they can be set out in open in May.

55. Sow March-June; germination 7-10 days; soil light compost and peat moss; half shade.

56. Sow November to May, indoors; not too rich soil; shade and sprinkle when necessary; move to small pots in August and keep aired, cool and fairly dry.

57. Sow in March or April in good compost; germination 12-15 days; transplant singly or in groups of 3 in small pots; keep in a warm sunny window; keep damp but not too wet.

58. Sow February-August in sandy leaf mould; cover lightly; cover with glass; transplant promptly to rich soil; disbudbing terminal will form bushy plants.

59. Seeds of trees and shrubs that are best to be sown in the fall as soon as possible after ripening or in pots or containers and plunged in the ground over winter; these can then be brot indoors in early spring to germinate. Spring sown seed often requires 2 years to germinate; fresh seed stratified can be planted in the spring.

CHOICE VEGETABLE SEEDS

BUSH BEANS

BURPEE STRINGLESS GREENPOD.

(53) A widely grown home garden sort; thick fleshy pods. Pkt. 15¢; lb. 30¢; 5 lbs. \$1.20; postpaid.

DWARF HORTICULTURAL.

(53) Used for green shell beans as in Limas or the are good as dry beans for winter use. Pkt. 15¢; lb. 25¢; 5 lbs. \$1.25.

SULPHUR.

(55) Recommended for use only in the South; good snap bean. Pkt. 15¢; lb. 30¢.

TENDERGREEN.

(52) Fleshy round pods 7" long; tender and popular. Pkt. 15¢; lb. 30¢.

TOP CROP.

(55) A new variety; resistant to mosaic; STRINGLESS and best quality. Pkt. 15¢; lb. 35¢; 3 lbs. 80¢.

WHITE HALF RUNNER.

(60) A popular variety in Kentucky; also dry bearn. Pkt. 15¢; lb. 40¢; 3 for \$1.00.

POLE BEANS

KENTUCKY WONDER.

(65) The best selling pole bean. Pkt. 15¢; lb. 40¢; 5 lbs. \$1.50.

MCCASLAN.

(65) A populal white seeded sort; pods flattish and good quality. Pkt. 15¢; lb. 45¢.

CABBAGE

SCHWEINFORT DRUMHEAD.

A French type Drumhead Cabbage; large heads; excellent for fall and early winter. Pkt. 15¢; oz. 35¢; 4 oz. \$1.25.

MICHIHLI.

(70) A new sure-heading variety; a little larger than Chihli; use as salad or cook like Asparagus. Pkt. 15¢; oz. 50¢.

WONG BOK.

(75) Solid broad heads; excellent in salads or cole slaw or cooked like Asparagus. Pkt. 15¢; oz. 50¢.

MAMMOTH RED ROCK.

(90) Red leaves; excellent quality and used for pickling and salads. Pkt. 15¢; oz. 40¢.

YELLOW RESISTANT CABBAGE

The resistant strain should be planted where the 'Yellow Disease' is present; the regular strains are best for disease-free soils.

CARROTS

AMSTERDAM FORCING.

A popular real early type. Pkt. 15¢; Oz. 40¢; lb. \$3.00.

DANVER HALF LONG.

(75) One of the best varieties; roots longer than Chanteney; bunching or winter. Pkt. 15¢; Oz. 40¢; lb. \$1.90.

CHANTENEY.

(70) Rich coloring; very popular; sweet and tender; roots 4½-5" long; good in heavy soils. Pkt. 15¢; oz. 35¢; lb. \$1.90.

PERFECTION.

A very perfect market variety; both for bunching or winter. Pkt. 15¢; Oz. 40¢; lb. \$2.00.

CUCUMBERS

CHICAGO PICKLING.

(60) Medium sized fruits, 6-7" long; most popular pickling sort and can also be used for slicing. Pkt. 15¢; Oz. 35¢; lb. \$2.00.

ONGFELLOW.

Not often offered; has very few seeds teh fruits are very long and slender and is an excellent slicing sort. Pkt. 15¢; oz. 50¢.

IMPROVED LONG GREEN.

(68) Dark green fruits, 9" long; most popular variety; sold under several other names at higher prices. Pkt. 15¢; oz. 35¢; lb. \$2.00.

WHITE WONDER.

(60) A white fruited variety; attractive in pickles when young or good for salads or slicing; also easily found amongst the weeds! Pkt. 15¢; oz. 45¢.

CORN SALAD

FITTICUS or LAMB'S LETTUCE.

(45) Thick leaves of mild flavor. Pkt. 15¢.

CHIVES

SAIER'S STRAIN.

Grass-like leaves; used in salads for its delicious mild onion-like flavor; in cottage cheese or cooked dishes; very healthful; perennial. Pkt. 15¢; oz. 60¢.

CARDOON

LARGE SMOOTH.

(180) Produce fleshy leaf stalks and midrib; leaves can be tied up to blanch Pkt 15¢; Oz. 50¢.

CELERIAC

Turnp-rooted Celery. Sow seed early; requires long season and rich soil; sow during Jan indoors and sett out in May. 12" apart; hoe some soil around plants late in season to keep roots from greening.

GIANT GLOBE.

A very popular variety. Pkt. 15¢; oz. 40¢.

LARGE SMOOTH PRAGUE.

(110) Large round, smooth tubers; celery flavor for soups, stews and salads. Pkt. 15¢; oz. 50¢.

CHERVIL

CURLED.

(60) Much like Parsley; bright green leaves. Pkt. 15¢.

CELERY

IDEAL.

A new strain from Holland; early and a good market type. Pkt. 15¢; oz. 60¢.

EARLY SNOWBALL.

(55) XX strain; medium, snow-white heads; compact; very popular. Pkt. 15¢; Oz. \$1.00; 4 oz. \$2.50.

DWARF GOLDEN YELLOW Self Blanch-

ing.

(90) Compact growth; thick solid stalks blanching to a beautiful yellow; very popular. Pkt. 15¢; oz. 70¢.

COLLARDS

GEORGIA SOUTHERN.

(75) Large green leaves; grown much in the South instead of Cabbage. Pkt. 15¢; oz. 40¢.

GARDEN CRESS

PEPPER GRASS.

Fripled curled leaves with excellent flavor for garnishing salads; can be grown indoors too. Pkt. 15¢.

TRUE WATER CRESS.

(180) A hardy perennial growing along running water; leaves have piquant flavor; used in salads or garnishing; try scattering seeds along brooks. Pkt. 15¢; oz. 75¢.

EGG PLANT

BLACK BEAUTY.

(95) Deep black-purple fruits; very popular. Pkt. 15¢; oz. 50¢.

ENDIVE

BROAD LEAF BATAVIAN.

Pkt. 15¢; oz. 30¢.

GREEN CURLED, ROSE RIBBED.

Pkt. 15¢; oz. 35¢.

WHITE CURLED.

Pkt. 15¢; oz. 35¢.

KALE

SIBERIAN or SPROUTS.

(70) Large plume-like fripled leaves; a strong grower. Pkt. 15¢; oz. 40¢.

KOHL RABI

EARLY PURPLE Vienna.

(60) Tender white flesh; top purple skin. Pkt. 15¢; oz. 50¢.

LETTUCE

NEW YORK.

(81) The most popular heading sort; tight heads. Pkt. 15¢; oz. 35¢.

BLACK SEEDED SIMPSON.

(45) Our best seller in the loose-leaf varieties; fripled crumpled, light yellowish green leaves. Pkt. 15¢; oz. 45¢.

OAK LEAF.

(42) Popular in some sections; dark green leaves; good in hot climates. Pkt. 15¢; oz. 50¢.

LEEK

AMERICAN, LARGE FLAG or LONDON.

(150) Very popular market gardener sort. Pkt. 15¢; oz. 40¢; lb. \$4.00.

WINTER KING.

A popular German variety. Pkt. 15¢; oz. 40¢; 4 oz. \$1.20.

MANGEL WURZEL

MAMMOTH LONG RED.

Large red roots and the best variety we have grown; excellent winter feed for your poultry. Pkt. 15¢; oz. 35¢; lb. \$1.80.

MUSTARD

FORDHOOK FANCY or OSTRICH PLUME.

(50) Curled and fringed leaves; mild in flavor; long standing. Pkt. 15¢; oz. 40¢.

FLORIDA BROAD LEAF.

A very popular variety in the far South. Pkt. 15¢; oz. 35¢.

SOUTHERN GIANT CURLED.

(60) Large light yellowish green fripled leaves; popular in South; vigorous. Pkt. 15¢; oz. 35¢.

MUSKMELON

HALE'S BEST.

(86) Oval fruits, 6½" long; heavily netted; of the best flavor; salmon flesh. Pkt. 15¢; oz. 40¢; lb. \$3.00.

HEARTS OF GOLD.

orange flesh; thick and delicious; ideal home garden sort as well as market. Pkt. 15¢; oz. 40¢; lb. \$2.50.

HONEY ROCK.

(85) Round, 5-6" fruits; deep salmon flesh, sweet, musky flavor; best market or shipping variety. Pkt. 15¢; oz. 50¢; lb. \$2.30

OKRA OR GUMBO

PERKIN'S MAMMOTH LONG POD.

(60) Long slender deep green pods; tall growing. Pkt. 15¢; Oz. 20¢.

ONION

WHITE BUNCHING.

A variety suitable for bunching. Pkt. 15¢; Oz. 30¢.

WHITE PEARL.

When planted a little thick they make small pickling onions. Pkt. 15¢; oz. 35¢.

WHITE QUEEN.

A small type for small bunching onions or pickling. Pkt. 15¢; oz. 35¢.

WHITE TOKYO BUNCHING ONION

A vigorous grower with long white stalks which blanch themselves to a white, tender high quality green onion; mild onion pungency. Pkt. 20¢; oz. 45¢; lb. \$3.00.

PARSLEY

HAMBURG ROOTED.

(90) The root is edible with a flavor like Celeiac; excellent in stews or soups; can be stored for winter use. Pkt. 15¢; oz. 35¢.

CHAMPION MOSS CURLED.

(70) Beautifully curled and crimped lvs; excellent for garnishing as well as in salads. Pkt. 15¢; oz. 30¢; lb. \$1.25.

COMMON or PLAIN.

72) Use this variety for drying and in flavoring soups, etc; high in food value. Pkt. 15¢; oz. 30¢; lb. \$1.50.

PARSNIP

HOLLOW CROWN or GUERNSEY.

(130) The most popular variety; white flesh; excellent. Pkt. 15¢; oz. 30¢; lb. \$1.30.

GARDEN PEAS

EXTRA EARLY ALASKA.

(58) Smooth seed and especially recommended for extra early planting as they will not rot in real cold soil as will the wrinkled sorts; excellent flavor; 2-3 ft. high. Pkt. 15¢; lb. 35¢; 10 for \$2.20, postpaid.

LITTLE MARVEL.

(62) Grows 18" high; pods 3" long; deep green and excellent flavor. Pkt. 15¢; lb.

40¢; 10 lb. \$2.90, prepaid.

THOMAS LAXTON.

(60) The best variety for freezing; excellent flavor; pods 4" long; 3 ft high. Pkt. 15¢; lb. 45¢; 10 lbs. \$3.00, postpaid.

DWARF GRAY SUGAR.

(65) Pods are edible like snap beans; 3 ft; pods 3"; excellent. Pkt. 15¢; lb. 40¢; 10 lbs. \$3.00, postpaid.



JAPANESE AROMATIC GREENS

MITSUBA. Belongs to the Parsley Family the stalks are slender, with greenish leaves, easily blanched to a white color; it is delicious and highly aromatic. Pkt. 20¢; oz. 80¢.

PEPPERS

CALIFORNIA WONDER.

Fruits are blocky; a very popular variety; flesh of best quality; mild; good for stuffing or eating raw. Pkt. 15¢; oz. 60¢.

RUBY KING.

(65) Fruits slightly tapering, 4-5" long; mild; very popular. Pkt. 15¢; oz. 40¢.

LONG RED CAYENNE.

Very hot red Pepper; pods 5" long, slim; good for drying. Pkt. 15¢.

PUMPKINS

CONNECTICUT FIELD.

(115) Fruits large, deep yellow, 20 lbs; a good all-purpose sort. Pkt. 15¢; oz. 25¢.

SUGAR or NEW ENGLAND PIE.

(110) Fruits small, 7 lbs; rich orange; excellent flavor; keeps well and makes the best pies. Pkt. 15¢; oz. 40¢.

KENTUCKY FIELD or LARGE CHEESE.

(120) Very popular in the South; fruits flattened, cream-yellow and large. Pkt. 15¢; oz. 40¢.

RADISH

EARLY SCARLET GLOBE.

(23) Bright red color; oval shape; best first early sort; excellent for bunching. Pkt. 15¢; oz. 25¢; lb. \$1.10; 5 lbs. \$3.90.

LONG WHITE CICLEI.

(30) Roots 6" long; white, 1" diameter; excellent for summer growing. Pkt. 15¢; oz. 25¢; lb. 95¢.

SCARLET TURNIP WHITE TIP.

(25) Turnip-shaped, rich red top, lower half snow-white; very popular. Pkt. 15¢; oz. 25¢; lb. 95¢;

SPARKLER.

(25) Deep turnip-shaped, top 2/3 bright scarlet lower part snow-white; a very popular variety and for bunching. Pkt. 15¢; oz. 25¢; lb. 95¢.

WINTER RADISH.

LONG BLACK SPANISH.

These grow best in latter part of season; plant seed during July or August; the roots can be packed in sand and held into winter. Pkt. 15¢; oz. 25¢.

RUTA BAGA

GOLDEN SWEET.

A large variety of the best quality. Pkt. 15¢; oz. 30¢.

SALSIFY

MAMMOTH SANDWICH ISLANDS.

(150) Long slender roots; oyster flavor; can be left in garden till spring like Parsnips. Pkt. 15¢; oz. 40¢.

SPINACH

BEST OF ALL.

A new introduction from Holland; it is a quality sort. Pkt. 15¢; oz. 25¢; lb. 50¢.

AMERICA.

(62) Best long-standing, heat-resisting variety; savoy leaf; 6-8" high. Pkt. 15¢; oz. 25¢; lb. 60¢.

PRICKLY WINTER.

Very hardy; thick, dark green leaves. Pkt. 51¢; oz. 25¢; lb. 75¢.

BLOOMSDALE LONG STANDING.

(43) Crumpled dark green leaves; lasts a long time before bolting to seed. Pkt. 25¢; oz. 25¢; lb. 85¢.

NEW ZEALAND. (Tetragonia).

Unlike the ordinary Spinach in having soft thick, fleshy leaves with a crystalline appearance. It should be sown early indoors or outside towards end of April; during the hottest weather it will maintain a supply of Spinach without running to seed; pick the leaves from the stems and you will have delicious greens all summer long the more you pick themore will come in its place. Pkt. 15¢; oz. 25¢; lb. 95¢.

SQUASH

SUMMER SQUASH.

COCOZELLE. (SUMMER)

(65) Dark green marbled with yellow; use when 6-8 inches long. Pkt. 15¢; oz. 40¢; lb. \$2.20.

EARLY PROLIFIC STRAIGHTNECK.

(50) Straight, smooth fruits, of creamy color; excellent. Pkt. 15¢; oz. 40¢; lb. \$2.50

EARLY BUSH SCALLOP.

(50) Light green when young; fruits fruits flattish. Pkt. 15¢; oz. 35¢; lb. \$1.70.

WINTER SQUASH.

FUTTUZ BLACK.

A new Japanese variety; we have not grown it yet but it is a popular sort in Japan. Pkt. 15¢; oz. 40¢.

There listed here but a few of the vegetable seeds carried in stock; due to a big increase in request for catalogs we were

out in February and this issue is a quick run to satisfy requests.

MAMMOTH TABLE QUEEN or ACORN.

(80) Acorn shaped; flesh rich yellow, dry, mealy and delicious; ideal for serving in half. Pkt. 15¢; oz. 30¢; lb. \$2.20.

UCHIKI KURI.

Another highly recommended capanese variety. Pkt. 15¢; oz. 40¢.

BUTTERCUP. (Turk's Cap)

Turban-shaped with a protuberance at end; dark green; flesh dry; mild sweet flavor; (100). Pkt. 15¢; oz. 40¢; lb. \$2.40.

BLUE HUBBARD.

(208) Blue-gray shell; an excellent keeper and highest quality. Pkt. 15¢; oz. 40¢.

SWEET CORN

GOLDEN BANTAM CROSS.

(85) The kernals are dented; deep and of excellent flavor. Pkt. 15¢; lb. 70¢; 3-\$1.70.

EARLY ADAMS or BURLINGTON.

(85) White kernals, 7-8" long; a popular table green corn in the South. Pkt. 15¢; lb. 35¢; 3 lbs. 95¢.

TRUCKERS FAVORITE.

(90) Similiar to Early Adams but taller, later and larger ears; used in the South as roasting corn. Pkt. 15¢; lb. 40¢; 3lbs \$1.00.

HICKORY KING.

(110) Large white flat kernals, used only in the South. Pkt. 15¢; lb. 40¢; 3 lbs 95¢.

STOWELL'S EVERGREEN.

(100) Ears 8" long; large white kernals of the best quality; one of the best late sorts for canning. Pkt. 15¢; lb. 50¢; 3 lbs. \$1.30.

GOLDEN BANTLM.

(78) Ears 6-7 inches long; golden yellow and very sweet; one of the best. Pkt. 15¢; lb. 40¢; 3 lbs \$1.20.

TURNIP

PURPLE TOP WHITE GLOBE.

(55) Purplish red above, white below;

the most popular late Turnip. Pkt. 15¢; oz. 25¢; lb. \$1.00.

PURPLE TOP STRAP LEAF.

(55) Rootts flattened; leaves strap-shaped; good keeper. Pkt. 15¢; oz. 25¢; lb. \$1.00.

EARLY WHITE MILAN.

(45) Roots flattened; an early sort for planting in spring. Pkt. 15¢; oz. 25¢; lb. \$1.00.

SEVEN TOPS.

(45) Used only for greens; roots ineble. Pkt. 15¢; oz. 25¢; lb. 90¢.



SHUNGIKU, Small Leaved, JAPANESE

AROMATIC GREENS.

Edible Leaved Chrysanthemum) Leaves are bright green with high aromatic flavor, delicious; widely used in Japan. Two types are offered: **LARGE LEAF.** Broad strap leaved, slightly indented. Pkt. 20¢; oz. 90¢. **SMALL LEAVED.** Deeply indented leaves. Pkt. 20¢; oz. 90¢.

RECOMMENDED GARDEN BOOKS

HERB GARDENING

GOOD COOKS USE HERBS.

\$1.90

Mary A. Collin. 90 pgs; bound to lay flat. Here is just about all the rules for the proper uses of herbs in drinks, bread, fish, meat, poultry, vegetables, salads, sauces, jellies, candies and desserts. Mrs. Collin is an experienced and practical grower of herbs and also puts up some wonderful products which are sold all over the U. S.

WILD and GARDEN HERBS.

\$2.25

K. N. Sanecki. There are many very good books on the growing and harvesting of herbs ;this is excellent dealing with both the garden and the wild herbs; their cultivation, drying, etc; well illustrated with excellent pen drawings of all plants discussed; 75 pgs; 1958.

HERBS.

\$2.50

By Helen Noyes Webster. Revised and enlarged edition; 1947; 198 pgs. Covers in

HERBAL DELIGHTS.

\$2.75

Tisanes, syrups, confections, robs, vinegars and conserves. Mrs. C. F. Leyel; London; 1953. Demy 8vo. With 50 line drawing by Marion Rivers-Moore.

HERBS IN THE KITCHEN.

\$1.50

By Ambrose Heath. 159 pgs. 1953. There are many tasty recipes for the serving and uses of Herbs, including many unusual kinds not ordinarily found in other Herb books; also some 30 pgs. on culture, but the real valuable part is the recipes; the author has written many books on cooking and this book will be found to be different.

HERBAL HAND BOOK for FARM and STABLE.

\$2.50

By Juliette de Bairacla Levy. 273 pgs. 1952. This a good practical book on medic-

inal herbs and their use on farm animals and poultry; it discusses the gathering and preparation; describes medicinal herbs, their uses but the greater part of the book is on the special treatment by herbs of the common farm diseases. It is different from the usual herb book.

CINQUEFOIL.**\$5.00**

Mrs. C. F. Leyel. The sixth of Mrs. Leyel's herbal books. 368 pgs; 17 full pg drawings; 5 full pg. engravings by Pas of the five senses; this book discusses herbal remedies for the five senses: eyes, nose, ears, taste and touch.

HERBS: HOW TO GROW THEM and HOW TO USE THEM.**\$3.00**

Listed as America's leading reference on Herbs and their many uses. In "100 Best Garden Books." 5th revised edition; by Helen Noyes Webster.

THE HERB GARDEN.**\$1.75**

Mary T. Quelch. 232 pgs; 8 ills; treats the subject of Herbs mainly as to their use in various illnesses, viz., colds, asthma, constipation, indigestion; rheumatism, etc; gives methods in making teas, tonics, etc.

GARDEN HERBS.**\$1.00**

By Geo. E. Whitehead. 1944; 81 pgs; no ills; this little book discusses all the common herbs in a practical way; one chapter on essences; I recommend it as a practical book and very useful to all wishing to grow garden herbs.

HOUSE PLANTS

HOUSE PLANTS UNUSUAL.**\$3.00**

Allen H. Wood. 231 pgs; several fine full page half tones, Discusses plants that can be grown in the house, even includes herbs for house growing.

100 INDOOR PLANTS.**1.50**

A. C. Muller-Idzerda. 1957; this is a recent translation from the Holland book; 114 pgs; a very nice half-tone picture on every page and the culture of 100 of the most popular plants; an excellent gift for a sht-in.

GROW THEM INDOORS.**\$2.75.**

By Allen H. Wood. 186 pgs. Well illust. in half-tones; if you are an indoor gardener, this book will give you ideas and information that will last for years; covers a wide range of house plants including Cacti.

EFFECTIVE USE of HOUSE PLANTS.**\$1.50**

Van Aluhen. 95 pgs well ills in half-tones; this book stresses the arrangement and use of plants in the house more than just pure propagation; it is very good; covers many different plants suitable for the house.

PROPAGATION

BETTER PRUNING of FRUIT.**90¢**

By Norman Stewart. 64 pgs; ring bound. A really good book for any small grower of fruits; 6 chapters; this would make a nice gift for a small fruit grower.

SECRETS OF SUCCESSFUL**PROPAGATION.****\$2.00**

By A. A. Longmire. Contains many line drawings by the author with detailed descriptions of his methods of propagating. The list of subjects range from hardy trees to tropical plants; every propagator should have this book.

SEED and POTTING COMPOSTS.**\$1.75**

By Lawrence and Newell. Rev. 4th edition, 160 pp., 30 figs., 122mo., cloth. London, 1950. New in dust wrappers.

The authors are the developers of the standardized John Innes composts. Their book shows how those remarkable composts save time, reduce the hazards of raising difficult plants from seed and simplify proper potting on the seedlings or cuttings to maturity. Complete formulas and methods of preparation are given.

SIMPLE PROPAGATION.**\$1.10**

By Noel Prockter. 140 pgs; very many ills. There is a vast amount of practical information in this book on propagation, from seeds to budding and grafting, with a list of trees, shrubs and other plants with methods of propagation. Worth many times the price to any grower.

PLANT PROPAGATION.**\$1.00**

Edited by A. G. L. Hellyer. 60 pgs; 140 photos and drawings. A good amateur book; will make a nice present for the beginner in gardening.

ROCK GARDENS

HOUSE PLANTS UNUSUAL.**\$3.00**

Allen H. Wood. 231 pgs; several fine full page half tones, Discusses plants that can be grown in the house, even includes herbs for house growing.

100 INDOOR PLANTS.**1.50**

A. C. Muller-Idzerda. 1957; this is a recent translation from the Holland book; 114 pgs; a very nice half-tone picture on every page and the culture of 100 of the most popular plants; an excellent gift for a sht-in.

GROW THEM INDOORS.**\$2.75.**

By Allen H. Wood. 186 pgs. Well illust. in half-tones; if you are an indoor gardener, this book will give you ideas and information that will last for years; covers a wide range of house plants including Cacti.

EFFECTIVE USE of HOUSE PLANTS.**\$1.50**

Van Aluhen. 95 pgs well ills in half-tones; this book stresses the arrangement and use of plants in the house more than just pure propagation; it is very good; covers many different plants suitable for the house.

A.B.C. of ROCK GARDEN and POOL**\$1.50**

Shewell-Cooper. 204 pp. illus. London 1949. Quite comprehensive for its size, this book lists many plants usable for rock gardens and for pools. Gives cultural hints and tells you how to construct rock gardens and pools.

ALPINE GARDENING

THE PROPAGATION OF ALPINES.**\$3.75**

An exhaustive book for the student, amateur, nurseryman and expert, admirably indexed. Lawrence D. Hills. Demy 8vo, with 87 line drawings and 44 illustrations from photographs, one of them in color.

ALPINE HOUSE CULTURE.**\$2.40**

By G. Anley. 164 pgs; 48 ills. This book consists of two parts: the alpine house, its management and care, in detail; and the culture in detail of hundreds of alpines suitable for alpine house growing; its good.

ALPINE GARDENING.**\$3.85**

By L. D. Hills. 343 pgs; 34 ills, with many line drawings; good on alpines; goes into detail on alpine banks; borders; dry walls; paths and alpine lawns; rockeries; soils; alpine plant by plant; propagation.

Gift books will be mailed as directed; send card with your order.

